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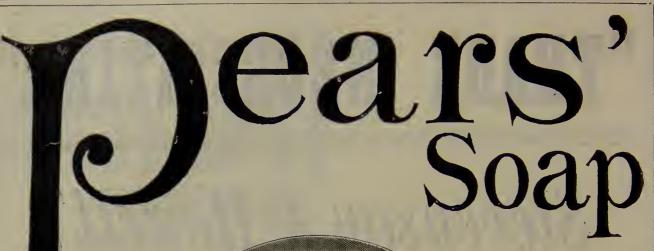
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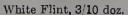
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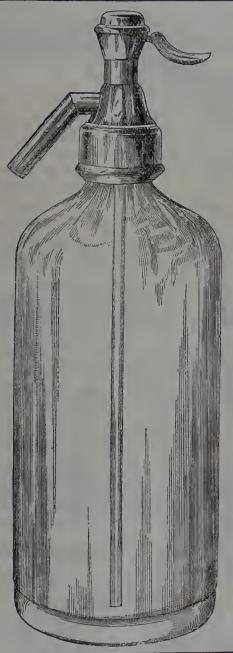
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BEAURINE DENTIFRICE is in liquid form, and is a substitute for both powder and mouth-wash. It is spoken highly of by both the Medical and Dental prefessions. BEAURINE is put up in attractive bottles, enclosed in handsome boxes.

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A special cash discount of 5 per cent. will be allowed off all orders over £1, and of 10 per cent. off all orders over £10. Cheques must be made payable to H. A. ROBERTSHAW & CO., and crossed Lancashire and Yorkshire Bank, Halifax.



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LONDON

JUNE 13TH.

[1891.

Improved Chloride of Ammonium Inhaler (Vereker's).

We have made several important improvements in this favourite inhaler, not the least important of which is the new valve, which prevents the possibility of blowing the water into the acid or ammonia bottles. The new style case is also a great advantage in protecting from breakage.
"The vapour of Chloride



of Ammonium removes unhealthy and offeusive secretions, and restores the longdiseased or weakened nasal and respiratory mucons membrane to a healthy state, so that in cases of catarrh, where thickening, induration, aud irritation exist, a most decided

improvement is brought about in a short time." In "throatcongh," pharyugeal irritation, and relaxation and weakness of the throat, it acts as a most effective alterative and touic to the mucous membrane.

The Vereker Chloride of Ammonium Inhaler affords per-

fectly neutral fumes, and is always ready for use.
Dr. Smyly, Ex-Pres., Royal College of Snrgeons, Ireland,

says:-" It is the best Inhaler for Chloride of Ammonium I have met with."

Supplied to the Trade at 5s. each; retail, 7s.

Thermo-Safeguard Feeding Bottle. (B., W. & Co.'s Patent.)

As a practical and scientific invention for protecting the lives of infants, nothing, except Fairchild's discovery of the pnre Zymine Peptouisiug agents, has of late years approached in importance the Thermo-Safeguard Feeding Bottle.

The British Medical Journal says: - "The Thermo-Safeguard Feeding Bottle enables the nurse to ascertain at all



times the temperature of the food given to the child. The bottle is made of flint glass of most approved shape, and has no angles in which the milk can coagulate. It has the further advantage (since the bottle is marked in ounces) of

giving a register of the exact amount of food taken at each feeding, and thus tends to awert the evil of over-feeding. The bottle has a great deal to recommend it, and is likely to come largely into use."

"The best of all feeding bottles, and onght to be universally used."—Edinburgh Medical Journal.

It is admirably adapted for use in predigesting with the

Zymine Peptonising Powders (Fairchild).

Snpplied to the trade in three qualities, at 10s. 6d., 14s., aud 22s. per dozeu. Retail prices 1s. 3d., 1s. 9d., and 2s. 6d., each.



This elegant little instrument is intended for use in applying a fine spray of an oily solution or of plain "Paroleine" (B., W. & Co.)—a basic paraffin oil free from odour, colour, or taste—to the naso-pharyngeal mucons membrane.

The Journal of Laryngology and Rhinology says:—"This instrument has delighted ns. We have so often asked for a spray that would throw a fine vapour of au oiutment or oily basis; and those which are offered are anything but satisfactory. The spray before us meets all onr wauts. No laryngologist's table will be complete without one of these beautiful sprays."—December, 1890.

A spray with a special conducting tube is supplied for use

in post-nasal catarrh, &c.

Supplied at 5s. 6d. each. Fitted for use in post-nasal cases, &c., 8s. 6d. each.

Wafer Medicine Cachets (B., W. & Co.)

(E. GORLIN'S PATENT.)

Au ingenious yet simple and ready method of taking disagreeable medicines in the form of liquid, powder, or "Tabloids." To charge a Cachet,



which is composed of pure rice starch, it is spread out in the folder, as shown in the accompanying illustration, and the contents placed in the cap. The lid of the Cachet is then wetted and brought over by means of the lid of the folder. When pressed on the top of the cap it is completely sealed, and prevents an egress of

B., W. & Co. WAFER MEDICINE CACHET AND FOLDER. the contents into the mouth. Just prior to taking the Cachet, it should be dipped in water and then placed on the tongue, and may be easily swallowed with a little water.

The British Medical Journal says they are "well adapted for the administration of unpalatable powders or liquids.

The London Medical Recorder reports:—"They will be welcome to medical men and their patients, and also to pharmaeists, whose labours they will lighten."

The Cachets are supplied to the trade in boxes of 100, with folder and measure complete, at 14s. per dozeu, subject to

usual discount.

Tincture of Strophanthus.

This is the first commercial Tincture of Strophanthus, and is found by physicians to be the only perfectly uniform and reliable preparation, because prepared from the first and finest shipment of the trne seed sent to Loudon.

The "TABLOIDS" contain each two minims of the Tiucture, and are the safest and most

convenient form of the drng to use.

Uses.—"Strophauthus," writes Dr. Fraser, "may be used with advantage in all weak states of this orgau, whatever the cause of weakness;" but in case of degeneration or insufficient compensatory change, will probably do little good. Not only will it often dissipate the uramic symptoms in Bright's disease, but in contracted kidney with dropsy it has quickly induced sleep and caused free diuresis.

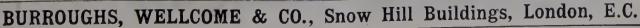
In Bright's disease, with its concomitant symp- Strophanthus Serv. toms, it is in most cases invaluable, and some have obtained good results in the anasarca of hepatic cirrhosis and chronic peritouitis. While in purely brouchial and uervons asthma it is not so beneficial, its beneficent effects in the dyspnœa of cardiac and renal diseases have been most marked. It is not a stimulant, but a cardiac touic.

Dose.—The Tincture (1 iu 20) may be taken iu doses of

from 2 to 10 drops, the former being a small dose.

Strophauthus Tincture supplied in 1-oz. and 1-oz. bottles, at 4s. and 6s. per dozen; 1-lb. bottles at 6s. each.

Strophauthus "Tabloids" supplied in bottles of 50 and 100, at 8s. 6d. aud 16s. per dozen.



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Sample Box
Three Dozen Tablets
9/-, Carriage Paid.

(REGISTERED TREDE MARK)

NEW STYLE.

Each Tablet in Card Cass.

SOAP.

The Best Emollient in the World must be the

Best Basis for Toilet Soap. 33-PER CROSS TABLETS.

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"BLUE SEAL," our regular 6d. size, without Card Case, in Boxes of one gross, 32s. net.

QUININE "TABLOIDS,"

The "Tabloids" of Compressed Soluble Quinine are wy preseribed by the leading physicians of Europe in eference to any other form of the drug, in the treatent of fevers and all other eases in which Online is



ISO-BUTYL NITRIS.

Also GLASS CAPSULES of ISO-BUTYL NITRITE.

For use in Angina Pectoris, Asthma, and similar complaints, by Inhalation.

Liquor Cascaræ Suavis.

(REGISTERED.

An agreeable Aromatic Fluid Extract of Cascara Sagrada, possessing the full laxative and aperient properties of the bark.

Sol. Æthyl Nitritis.

Containing 3 per cent. of Pure Nitrite of Ethyl, in Absolute Alcohol and Glycerine.

See paper by Professor Leech on "The Comparative Effects of Spiritus Ætheris Nitrosi and Solution of Ethyl Nitrite,"

Pharmocontical Journal, December 22, 1888.

Spiritus Ætheris Nitrosi.

Guaranteed to contain the proportion of Nitrous Ether directed by the British Pharmacopæia.

Æther Nitrosus and Sol. Ætheris Nitrosi.

Respectively 8 and 4 times the strength of the Spirit.

JAMES WOOLLEY, SONS & CO.

Manufacturing Pharmaceutical Chemists,

MANCHESTER

Laboratories and Drug Mills, KNOWSLEY STREET, CHEETHAM.

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PUBLISHER'S NOTICE.

WHOLESALE HOUSES are requested to hear in mind that the Summer Issue of THE CHEMIST AND DRUGGIST will be published on July 25. On that occasion, and not again this year, we shall he prepared to stitch circulars with the journal. This favourite and effective method of distributing a circular to the trade must he arranged in advance, and firms thinking of taking advantage of the opportunity can get full particulars by communicating with us.

SUMMARY.

THE Pharmacy Acts Amendment Bill is marked "dropped' in the official Parliamentary record.

THE condition of the alkali industry, as depicted by the chief inspector in his annual report, is good. We give an article based on the report.

In a prosecution at Glasgow on Thursday, for the sale of seidlitz powders which contained no Rochelle salt, the defendant, a grocer, pleaded guilty, and was fined. The sheriff indicated that the British Pharmacorceia was the standard which should be followed.

CHEMISTS' shops so rarely, in spite of evil days, come under the auctioneer's hammer that we have thought it advisable to give an account of a sale which took place in Edgware Road this week.

THE President of the Pharmaceutical Society of Ireland has given an explanation of the absence at the late Jubilee celebration of any address from his Society, which conspicuous absence was noted in this journal.

THE competition for seats on the Scotch Executive of the Pharmaceutical Society is keener than that for the London Council. There are twenty-nine candidates for the seventeen vacancies. The election comes off next week.

THE PHARMACEUTICAL SOCIETY has obtained judgment at the Hanley County Court against four unqualified assistants of two drug stores in the town. Judgment for penalties, amounting to 40*l*. in all, was recorded.

THE Halifax West Riding magistrates have dismissed a summons taken by the Inland Revenue authorities against a chemical manufacturer for using a still without a licence. The defence was that the still was only used in the manufacture of snlphate of ammonium.

THE Lord Lieutenant of Ireland has sanctioned the widening of the druggists' examinations under the Pharmaceutical Society of Duhlin so as to embrace, in addition to principals, those assistants who were in husiness before the passing of the 1875 Amendment Act.

An interesting historical and statistical record of the British Pharmacopæia was suhmitted to the General Medical Council at its recent sitting. This we print. It will also be noted that Sir Richard Quain has heen thanked for his services in connection with the Pharmacopæia.

IMPORTANT.

JAHNCKE'S PATENT BOXES .-- In THE CHEMIST AND DRUGGIST of April 18 last we replied to a correspondent in reference to a patent for Jahncke's metallic boxes and in that answer we fell into an error which, in justice, to Mr. Jahncke, as well as chemists and druggists generally we desire to correct. We stated that "Jahncke's patent for making small tin hoxes is void." That was an incorrect statement. Mr. Jahncke's patents (which have been well known in the trade for so many years past) are in full force, hoth as regards the patent round hox, in which the drawn-up lid and body are made of the same diameter, the inside round strip serving for the lid to pass over and to fit flush against the hody; and also as regards the patent oblong hox with the rounded corners. The mistake occurred through our making an incorrect reference at the Patent Office. The patent to which we referred in our reply to "Alpha" on April 18 last was also one of Mr Jahucke's (he has heen a prolific inventor), hut was dropped It related to a certain kind of money-hox and was of no interest to the chemist and druggist trade. In our issue of May 9 the mistake we had made was referred to on page 670, hut as the inscrtion of the statement is calculated to cause Mr. Jahncke serious damage unless a full explanation and retractation ho made, we have much pleasure in inscrting this explanation, and beg to express to Mr. Jahncke our regret for the iuadvertence which led to the insertion of the statement in question. We trust that our readers have not been in any way misled therehy, and that it has not been injurious to the interests of Mr Jahncke, whose patent metallic hoxes have heen of such great houefit to the trade.

English Rews.

TRADE-MARKS.—There were 10,258 applications for the registration of trade-marks in 1890, a smaller number than in any year since 1885. During the year 5,701 marks were advertised, and 6,014 registered.

A CONCERT, in aid of the German Hospital and the German Society of Benevolence, will be given in the Munich Theatre at the German Exhibition on Saturday, the 27th inst., at four o'clock. The net receipts of the Exhibition on that day will be handed over to the two charities named.

MECHEMICAL SOCIETY.—At the meeting on Thursday, June 18, there will be a ballot, and the following papers will be read:—"The Action of Sulphuric Acid on Dehydracetic Acid," by N. Collie; "The Refractive Power of Certain Organic Compounds at Different Temperatures," by Dr. W. H. Perkin, F.R.S.

CENTENARY OF THE BIRTH OF MIOHAEL FARADAY.—H.R.H. the Prince of Wales has fixed 4 o'clock on Wednesday, June 17, for the delivery by Lord Rayleigh of the first of the two lectures at the Royal Institution in connection with this centenary; and Friday evening, June 26, at 9 o'clock, has been appointed for the second of these lectures, which will be given by Professor Dewar.

AN OVERDOSE OF CHLORAL.—An inquest was held on Monday on the body of Mr. William Farrant, late Chairman of Jnstices in the North of the Isle of Man, and senior member of the Honse of Keys, who died snddenly at his residence at Jurby, near Ramsey, that morning. The evidence showed that the deceased gentleman injured his arm about a week ago, and had since suffered from insomnia, for which he had been taking opiates. On Sunday he took a dose of chloral, and it proved fatal. The jury found that death was dne to an overdose of chloral, taken to alleviate pain and produce sleep.

A FIRE occurred on Saturday night, Jnne 6, at the St-James' Street shop of Messrs. D. W. Bardill & Co., chemists, Derby. It appears that one of the assistants was in the act of reaching some article when, not being high enough, he placed his foot npon a lower shelf. The latter, nnable to bear his weight, gave way, and a number of bottles fell to the ground and were broken. One of these contained a quantity of spirits, which ignited at a gas stove close by, and the whole place was instantly in a blaze. The fire anthorities were promptly informed of the mishap, and the flames were extinguished before they obtained a firm hold of the premises. The damage done is said to be covered by insurance.

FULLER'S EARTH UNION.—The annual general meeting of this company was held at Cannon Street Hotel on Thursday. Mr. A. G. D. Moyer presided, and moved the adoption of the report and accounts. The directors, in their report, congratulated the shareholders on the fact that the accounts showed a profit enabling the directors to declare a dividend of 7 per cent. per annum, and to carry forward the snm of about 600% to reserve. The sale for the past year had been satisfactory, and during the months of April and May, 1891, the business done showed an increase over the corresponding period of last year. The directors had every hope, said the Chairman, that the ensuing year would be better than the past one. Mr. William Blewitt seconded the motion for the adoption of the report, and it was carried. Mr. S. E. Butler was re-elected a director, and, upon the nomination of Mr. Hanning, Mr. W. B. Hallett was elected as an additional

DEATH BY POISONING IN BIRMINGHAM —Shortly before eleven o'clock on Saturday night Jane Penn (69), wife of a pearl button maker, living at the back of 115 Stewart Street, Spring Hill, was admitted to the General Hospital suffering from the effects of poisoning. The woman has been in a desponding condition of mind, and on Saturday she took a quantity of acid used by her husband in his trade. Yesterday afternoon she died from the effects of the poisoning. She

left behind her in writing an intimation that she intended taking her life, but ascribed no reason for the act. It is known, however, that of late she has been living in very poor circumstances, and it is supposed that her mind became unhinged as a consequence.

KILLED BY A HORSE BALL.—A young married woman named Charles, 25, residing at Somerby, Grantham, committed suicide in a novel manner on June 3. She had been suffering from influenza, which brought her to a very low state. On the Tuesday night she asked for the carving knife to cut her throat. On Wednesday, when left to herself, she obtained from the enpboard a horse ball and took it. Dr. H. Bennett Bailey, who had been attending her for the influenza, was sent for, but on his arrival the poor woman was quite dead. With considerable difficulty the ball was taken from the woman's stomach, and was found to be one of the ordinary balls used as a medicine for horses, and composed principally of aloes. The ball measured 3 inches in length, 1 inch in width, and weighed 1½ oz.

SUICIDE OF A CHEMIST'S ASSISTANT.—On June 2 an inquest was held at Market Bosworth respecting the death of Charles Marcus Walker, aged 21, an assistant to Mr. Thomas Drackley, chemist and druggist. Tom Curtis, another of Mr. Drackley's assistants, said deceased was a native of Odstone, near Atherstone. He had been an assistant to Mr. Drackley for two years, and was quiet, steady, and very reserved. During the last two or three weeks deceased seemed rather vacant at times, and complained latterly abont his head. On the previous Saturday deceased appeared in his usual health, and ate a hearty dinner. In the course of the afternoon, however, he appears to have taken arsenic, which he obtained from a cask in the warehouse. Evidence was given which showed that he was somewhat jealous in reference to a young lady to whom he was engaged. After hearing the circumstances, the jury found that deceased had committed suicide while of unsound mind.

CRICKET.—BARCLAY & SONS v. "KEPLER" C. C. (BURROUGHS, WELLCOME & Co.).—This match was played on the ground of the first-named clnb at Raynes Park on Saturday afternoon last. Malt extract proved to be stronger than B. & S. on this occasion. The scores were as follows:—

"KEPLER" C. C.	- 1	BARCLAY & SONS.		
Ling, b Boyd	18	Kuott, b Smitb		8
Smith, b Knott	1	Boyd, run out	• •	14
Kent, b Seruby	15	Coward, b Smith		8
Wood, not out	24	Harrison, c & b Kent		7
Thompson, b Fairweather	6	Spiers, b Kent		1
Astill, b Fairweather	0	Edwards, C. Astill, b Kent		0
Veitch, run out	4	Greenfield, run out		0
Clayson, e Greenfield, b Spiers	3	Fairweather, c Astill, b Smitb		5
Stevens, b Spiers	0	Button, b Smith		0
Draper, b Spiers		Sernby, not out		-0
Johnson, E., st Coward, b air-		Voyee, run out		0
weather	3	Byes 6, leg-byes 3		9
Byes 2, leg-byes 3	5			
	_			
Total	79	Total		52

The married members of the Midland Counties Chemists' C. C. are to compete with the single members on Wednesday next, June 17, on the Langley Cricket Ground, Small Heath, Birmingham.

A CHEMISTS' TRAVELLER FOUND DROWNED.—On Saturday, June 6, an inquest was held at Radcliffe-on-Trent, touching the death of Robert Scott Taylor, whose body was found in the river Trent on the previous evening. The deceased was a traveller, in the employ of Messrs. Clarke, Bleasdale & Co., wholesale druggists, York, and visited Nottingham on business about May 19 or 20. He was last seen alive by the landlady of the hotel at which he stayed on May 23, and no evidence was obtainable to show his whereabouts between that date and the finding of his body last week. Mr. G. H. Bleasdale, wholesale druggist, of the firm of Clarke, Bleasdale & Co., said that the deceased had been in his employ as a traveller for about twenty-five years. Witness last saw him alive in York eight or ten weeks ago. He visited Nottingham at regular intervals, and would be

dne there on May 19. The deceased was a temperate man, and, as far as witness knew, his accounts were straight. Witness received a telegram from the deceased on business matters on May 23, in which he stated that he had been very ili for three days. It was further stated that the deceased had been suffering from pain in the head, due to influenza. The jnry returned an open verdict.

IRISH NEWS.

SIR CHARLES CAMERON, public analyst and city chemist, Dublin, has been elected president of the Irish Medical Association.

A CANCER-CURE.—At Castlebar last week a further investigation was held into the charge brought against a local "cancer-cnrer" of accelerating the death of a Mrs. McDermott by the application for cancer of a plaster which he stated was an infallible cnre for the disease. The viscera, &c., were forwarded for analysis to Sir Charles Cameron, Dnblin, but as that gentleman had not yet submitted the result of his examination, the hearing of the case was still further adjourned.

EXAMINATIONS FOR LICENCE TO ACT AS A REGISTERED DRUGGIST.—At the Dublin examination the following were successful:—Miss Fanny Pierse, Wexford; Messrs. Alexander Andrews, Banbridge; Richard Barry, Midleton; James Clancy, Dublin; Patrick Dromgoole, Dublin; Richard Ellis, Limerick; Thomas Lorell Harte, Dublin; William C. Spencer, Dublin. One candidate was rejected. At an examination held on May 9 at Queen's College, Belfast, the following passed:—Messrs. John H. Dudgeon, Thomas John Field, S. Edgar Kee, James Mahon, William Miskelly, Thomas Spratt, and Samuel Suffern, Belfast; David S. Thomson, Dundalk; Thomas G. Wilkinson, Belfast. Six were rejected.

The Charms of the Union.—After reflecting on the revelations as to the medical lnxuries which Mr. Barnardo showed last week were supplied to the South Dublin Union, a correspondent of the Dublin Evening Telegraph writes asking for terms of admission to the "lotus-land," of which a glimpse has been given. "Here am I," he says, "working day in and day ont from January to January, buying a pound now and then of Barrington's whitey-brown soap, and an odd pennyworth of Epsom salts, or a couple of antibilious pills, and rnbbing any chafed spot of skin with hogs' lard, when I might be enjoying pleasure unvexed with visits from the tax-collector, and warding off dyspepsia with Eno's frnit-salt and Tamar Indian lozenges, and preserving the beauty of my skin with Blondeau et Cie.'s vinolia preparations, their otto de rose perfume perfumed soap, and the delicately-scented vinolia cream at 3s. 6d. per oz. A friend who wishes to accompany me asks if bouquet cigars are provided, if they have any '74 Pomery, and on what days do they take carriage drives."

SCOTCH NEWS.

ARBROATH.

MEDICINES FOR THE POOR-HOUSE.—At the monthly meeting of the Committee of Management of the Arbroath and St. Vigean's Poor-honse, held last week, a letter was read from Mr. Naysmith, chemist, offering to supply ali ordinary medicines to the poor-house at 4d. per prescription, with a net profit of 10 per cent. on all expensive medicines, as at present arranged by St. Vigean's Parochial Board. The chairman remarked that this was the outcome of the conference held by the snb-committees appointed by the different boards. It was for the meeting to say whether they approved of what the committees had done. The arrangement was considered satisfactory.

DUNDEE.

THE DUNDEE LABORATORY under "the pillars" will be opened in a week or two. Mr. John Forsyth has the work of fitting nearly complete.

Mr. W. MILLER, the grocer who first took up the sale of patent medicines in Dundee, now advertises that he has "prescriptions prepared by a qualified chemist." Mr. Miller

has no dispensing department or qualified chemist in his store, and it is conjectured that some friendly chemist assists him.

THE HALF HOLIDAY is still much less than half-hearted. Only five chemists have as yet closed on Wednesdays from three to seven, and that only in one locality. There is some prospect of a few of the shops in the centre of the town following the lead of those in the East-end.

CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSOCIATION.—The first of the excursions, which have been arranged to be held on Wednesday afternoons during the summer, came off on June 3, the place visited being the chemical works at Carnoustie, belonging to Messrs. Charles Tennant & Co. (Limited), St. Rollox. The party, numbering about twenty, were shown over the extensive vitriol plant, and shown the manufacture of the various chemical manures, which is also carried on here on a large scale. The visit proved most interesting and instructive; and, as the weather was delightful, the party returned to Dundee highly pleased with the success of the first excursion.

EDINBURGH.

A LEITH REMOVAL.—Mr. J. T. Coats, pharmacentical chemist, has now removed from 59 Tolbooth Wynd to new and commodious premises which he has erected at Nos. 64 and 65 in the same street. Mr. Coats has made a very handsome pharmacy; and from the artistic tile floor, in the centre of which is the Leith arms, to the cornice everything is in good taste.

THE BRANCH EXECUTIVE.—The voting papers for the election of the new executive have been issued. The following is a list of the candidates. If the number be any indication of the interest taken in the Society in Scotland, we should say that that interest, or the competition to get into Edinburgh a few times a year for nothing, is considerable. From the twenty-nine candidates seventeen are required to constitute the executive with the two Scottish members of council and the President and Vice-President of the Society:—

Bethune, W.J., Inverness
*Boa, Peter, Edinburgh
Coats, J. T., Leith
Coull, George, Edinburgh
Currie, W. L., Glasgow
Ewing, J. L., Edinburgh
*Fisher, J. H., Dunfermline
Fowler, G. R., Forfar
Fraser, J. I., Edinburgh
*Frazer, D., Glasgow
*Gibson, Adam, Edinburgh
*Gilmour, W., Edinburgh
*Hardie, J. M., Dundee]
Jack, J., Arbroath
Johnston, John, Aberdeen

*Kermath, W. R., St. Andrews
*Kerr, Charles, Dundee

*Kinuinmont, A., Glasgow
Laird, G. H., Edinburgh
Lunan, George, Edinburgh

*Maben, T., Hawick

*McAdam, R., Glasgow
Maclaren, D., Edinburgh

*Nesbit, John, Portobello

*Paterson, James, Aberdeen

*Stephenson, J. B., Edinburgh

*Strachan, A., Aberdeen
Sutherland, J. W., Dumfries
Thompson, T., Edinburgh

Those marked thus * are members of the retiring executive; Messrs. Lawrence, Ohan, and Mackenzie, Edinourgh, do not seek re-election. Messrs. Bethune, Currie, Fowler, Jack, and Sutherland have not previously been candidates. The only one who appeals directly to the voters is Mr. Sutherland, who states in a circular that he offers his services "in the interests of pharmacy in the large and important south-western district of Scotland, which has hitherto had no representative on the executive." A meeting of members and associates in business residing in Scotland is convened for Wednesday, June 17, at 12 noon, to receive the result of the election.

GLASGOW.

THE NEW FEVER HOSPITAL.—The Police Commissioners have sanctioned the purchase of the site on Ruchill Estate for the erection of the new fever hospital to which we referred last week.

INFLUENZA.—Glasgow, in comparison with other largo cities, has been remarkably free from influenza this year. Of late, however, a good many cases have been reported to the authorities. Dr. Russell, the medical officer for the city, reports that eleven deaths occurred from influenza during the month of May, being five more than in any of the previous months of the year.

Parish Medicines.—Owing to alteratious that are presently being made on the Parliamentary Road Dispensary, the City Parochial Board have made arrangements with Messrs, J. & R. Rodmau, 235 Duke Street, for supplying medicines to the poor in the east end of the parish in the meantime. Last month 4,501 prescriptions were made up in the Parliamentary Road Dispensary. The offer of Messrs. W. & R. Hatrick & Co., Glasgow, for the supply of medicines, has been accepted by the City Parochial Board. The contract price is 53! 16s. 11d. Other three local firms sent in offers, namely, The New Apothecaries Company, The Glasgow Apothecaries Company, and Messrs. Brown, Brothers & Co. The City Parochial Board have appointed Mr. Walter Heuderson to the post of assistant apothecary.

THE DUKE'S CURE.—The action which was receutly brought by a Mr. Wynd against Mr. Robertson, of Roseneath, for failing to supply a rheumatic specific, has been decided by Sheriff Gebbie, of Dumbarton. The facts were detailed in The Chemist and Druggist of May 9, and it will be remembered that the pursuer alleged that by the defender not supplying the medicine he was injure in health, and had to return to Glasgow, when, on the advice of two eminent doctors, he proceeded to Bath in order to be restored to his wouted health. The sum sued for (2001) was to reconp him for the expenses that he had been put to owing to defender's refusal to supply him with the specific. The sheriff, after hearing proof, has issued an interlocutor, in which he decerns in favour of the defender, and finds him entitled to expenses.

Foreign and Colonial Rews.

GIFTS TO BELGIAN UNIVERSITIES.—Mr. Leo Errera, Professor of Botany at the University of Liege, Belgium, has announced his intention to present to the University a Botanical Institute. A few years ago the same University was presented with a magnificent Electro-Technical Institute by Senator Montesiore. Brussels University possesses a Chemical Institute, provided by the liberality of the famous alkali manufacturer, Solvay.

The Opium Monopoly in the Dutch Indies.—It is reported that, in consequence of the numerous abuses to which it has given rise, the Dutch-Indian Government intends next year to abolish the system of sale by anction of the right to retail opinm for smoking purposes. The opinm-traffic will thenceforth be conducted by the Government itself, upon the régic system prevailing in certain French colonies, and, for tobacco, in France itself.

A FAMILY POISONED—The Cape Argus reports that certain members of the family of Mr. Difford, Secretary to the Cape Colony Railway Department, were poisoned, it is presumed by "Rough on Rats" having been put in their soup. Miss Mabel Difford, a young lady of 17, died from the effects, but the other members of the family have recovered. The female servant and a Kafir boy have been arrested, and a preliminary examination is being conducted by Mr. Cloete, the Resident Magistrate of Wynberg.

JAVA CINCHONA ESTATE DIVIDENDS.—The annual general meeting of shareholders in the Java Ciuchona Planting Company, "Melattie," was held in Amsterdam on June 3. A dividend of eleven per cent. was declared for the working of the year 1890, while, in addition, 2,000f. was written off for depreciation of buildings, 3,000f. carried to the reserve fund, and a balance of profit of 1002·54f. carried to new account. The name "Melattic," does not occur among onr list of Java estates. There is, however, a Goenoeng Melati estate, which is one of the best in the island, and produces an equivalent in bark of 4,000 to 6,000 kilos. sulphate of quininc per annum. It does not follow by any means, however, that the dividend was not obtained from produce other than einchona.

CINNAMON ADULTERATION IN AUSTRIA.—The Austrian ministry for home affairs has issued a circular to all police anthorities throughout the conutry calling attention to the

growing practice of adulterating spice, especially ciunamon, and enjoining a strict application of the laws against food adulteration. The circular states that it has been brought to the knowledge of the authorities that large quantities of hazel-nut shells are brought into commerce by way of Trieste for no other purpose than to be ground up with cinuamou.

MEDIOINES IMPORTED INTO TURKEY.—With a view of preventing the falsification of patent and other medicines imported into Turkey, it has been decided, says the Levant Herald, to include all pharmaceutical products within the measure which has been in operation for some time in regard to quinine. Accordingly, all such products will be examined by a body of agents appointed for the purpose, and a label will be stuck on each bottle, case, or box, as the case may be, indicating the date of the examination. The measure has been sauctioned by Imperial iradé, and will be shortly put into force.

PHARMACY IN INDIA.—Messrs. Holmes & Co., chemists, Madras, have opened a branch dispensary on the Batt. Road, St. Thomas's Mount. A correspondent of a Madras paper remarks on this that: "In supplying really safe aerated waters, at localities, alone, they might, if once popularly known, drive a thriving trade; and their supply of such medicaments as may not be procurable at the local civil dispensary will soon make their usefulness to be appreciated. Several dispensaries before the present one shot up, and disappeared mushroom-like. This would seem to show that one interested in the business would best look after its popularity."

THE WIDOWER'S REVENGE.—The Russian journal Novostis responsible for the following story:—A St. Petersburg practitioner had among his patients a lady whom he had treated for a serious ailment for months without any good effects. The patient, in fact, grew worse, and at last the doctor ordered a remedy of a dangerous, powerful character, at the same time informing the lady's husband that he expected this prescription to effect a cure. Instead of this, the illness ended fatally almost immediately after the administration of the remedy; and the husband, rightly or wrongly ascribing his wife's death to the potent medicine, affixed the doctor's prescription to the cross over his wife's grave, with explanatory comments of his own warning passers-by against the practitioner, whose incapacity he alleged to be the cause of her death. The doctor has brought an action for damages, which will shortly be heard.

OPIUM AS CURRENCY.—In parts of the Hankow district of China opium is used as a medium of exchange, and the Consul there explains the curious circumstance in this way. Commerce, except along the water routes, is in a primitive condition. The great weight of the copper coinage renders it unsuitable for exchange. Silver, which is used in the large towns, is used in bulk by weight. It is melted into lumps of varying purity and weight. The most generally nsed vary from 68 to 70 oz. each. The inconvenience of dividing it is a serious drawback to its being used in the country, as is also the difficulty of testing its pureness. The credit of the native bankers is not widely enough established to give an extended currency to their notes. Under these conditious opium is found useful, in addition to pure barter, which still prevails to some extent, in facilitating the exchange of commodities. In this respect it has three advantages—it is almost universally in demand, it is light and portable, and it is easily divided into small quantities.

A CANADIAN PAINT COMBINE.—A proposal for the amalgamation of a number of Canadian paint factories is receiving serious consideration. At present the factories produce much more than is needed for consumption, and the result has been severe cutting inprices, so that no money can possibly be made. The advocates of amalgamation point to the fact that there are now forty travellers on the road, where three could cover the ground. The reduction in the staff of travellers would mean a saving of about \$75,000 annually. There are also at present fifteen managers over the different factories, where only two are wanted. In the last two years, also, three large paint-manufacturing establishments have been added to the trade, and this has further added to the severe competition which the trade has had to experience. Several meetings have been held in Montreal and Toronto, and the scheme generally favoured

is to merge into one large company four manufacturing establishments in Montreal, three in Toronto, and one in Halifax. Some difficulty is experienced with one firm, but it is believed this will be overcome.

AMALGAMATION OF AMERICAN DRUG FIRMS.—The formation of mammoth companies, by the amalgamation of competing firms into one huge concern, has for some time been one of the features of the American drug trade. What the New York Shipping List describes as another "important deal" in this direction was made on May 26 at Detroit by the amalgamation of the firms of Williams, Sheley & Brooks and James E. Davis & Co., the latter of whom have just been burnt out. The new concern will be known as Williams, Davis, Brooks & Co., and will be composed of W. C. Williams, James E. Davis, Alanson Sheley, and A. S. Brooks. The capital will be \$300,000, and the firm, as one of the partners frankly stated, expect to do a business of from \$1,500,000 to \$2,000,000 a year. Detroit is now one of the four drug centres of the country, coming into direct competition with New York, Chicago, and St. Louis. The objects of the amalgamation are concentration, the reduction of expenses, and an increased output.

ARTIFICIAL v. NATURAL LEMONADE — The question whether mixtures of various artificial ingredients-in casu an ammoniacal solution of carmine, and an alcoholic solution of fuchsine dilnted with fruit-essence-may be lawfully sold under the name of lemonade has occupied the attention, first of the local court at Mülheim, and secondly, of the Correctional Tribunal at Dnisbnrg. The defendants were a number of itinerant hawkers who had dispensed the artificial compounds to thirsty enstomers upon the occasion of the Mülheim Whitsnn fair. The Mülheim judge fined them 50s. each, but, upon appeal, this conviction was quashed, the tribunal deciding that the term "lemonade" might now be held to include preparations containing no natural fruit juices whatever. The witness for the defence who appears to have most strongly impressed the judge with this view was apotheker Mellinghof, of Mülheim, who explained that the fruit-drops, effervescent lemonade, and other articles of consumption now sold very largely contained no material whatever derived from natural fruit, and that apothekers themselves were accustomed to retail a flavoured drink coloured with ammoniated solution of carmine under the name of lemonade -that mixture, according to the witness, being a real boon to the poor classes of consumers.

FRENCH PHARMACEUTICAL NEWS. (From our Paris Correspondent.)

RLECTION AT THE ACADEMY OF SCIENCES.—M. Moissan has been elected, by a majority of ten votes, as a member of the Section of Chemistry at the above Academy. The other candidates were Messrs. Grimaux, Ditte, Jungsleisch, and Le Bel.

DEATH OF A HOMGEOPATHIC DOCTOR.—Dr. Frederick Love, an English homoeopathic practitioner, died on Wednesday last at his apartment, Rne d'Anmale. He was 75 years of age, and a resident in Paris for the last fifty years. During the cholera in 1849 he established a numerous and wealthy connection amongst the best classes of society. He had a special *clientèle* amongst lyrical artists, and attended Madame Patti during her last visit to Paris. His son, Dr. James Love, is secretary of the French Homoeopathic Society.

A NEW ELECTRIC BATTERY.—M. de Lalande, engineer, has recently invented a new battery, formed of a conglomeration of oxide of copper, for telegraphic and telephonic purposes. This gentleman renders the surface of the oxide active by metallisation, and this permits of a great intensity (up to 25 ampères) being obtained. The battery can be made to last several years, as, when not actually in use, it does not exhanst itself.

A BOGUS PATENT.—A man named Kuess, professing to be a chemist, recently sold to Messrs. Bapterosse & Co. a patent for the preparation and application of potters' colours without firing, 40,000f. being the price paid for the so-called

invention. The purchasers were unable, however, to obtain the results shown them by M. Kuess, and on account of which they had been induced to buy his invention. The firm naturally demanded that the chemist should again show them the process of working his patent, but he declined further assistance. In consequence of this an action was brought against Kuess, and the judge suggested that the defendant should comply with the reasonable request made by Messrs. Bapterosse & Co. He again declined, however, to give further assistance, and experiments were carried ont by order of the court at the Ecole des Arts and Métiers. These proving unsuccessful, the quasi-inventor was found guilty of swindling. He was condemned to three months' imprisonment, a small fine, and to refund the 40,000f., with interest, as well as to pay 1,000f. for damages and costs.

INFLUENCE OF DRUGS ON THE HEART.-The temporary expansion and contraction of the heart under the influence of certain drugs formed the subject of a paper read by Professor Germain Sée at the last meeting of the Academy of Medicine. The professor, in collaboration with Dr. Pignol, gave the following summary:—(1) Sparteine is the substance which diminishes most promptly and effectually the volume of the heart. This drug strengthens the cardiac muscles and augments their vital force. (2) Digitalin also contracts the heart, but only when its cavities are already in a state of dilation. (3) Iodide of potassium tends to contract, but to a less degree than sparteine. (4) Antipyrin expands the volnme, but without influencing arterial pressure. (5) The action of bromide of potassium may be taken as the opposite of iodide of potassium, but as similar to antipyrin. It dilates the whole organ, the right side being slightly more affected than the left. Certain other drngs have no effective action. Caffeine, says Prof. Sée, has no influence on the cardiac muscles, in spite of certain assertions to the contrary.

Gazette.

PARTNERSHIPS DISSOLVED

Bond & Edwards, Hallfax, surgeons.

Hale, T., Hale, M. G., & Vanhouse, J. M., under the style of Hale & Son, Fenchurch Avenue, City, colonial brokers; as far as regards. T. Hale.

Watkinson & Lonsdale, Leeds, manufacturers of photographic apparatus.

THE BANKRUPTCY ACTS, 1883 AND 1890.

RECEIVING ORDERS.

Ayton, Edward, Southwick Street, Hyde Park, surgeon dentist.

Broadway, Siglsmund Aiexander William Edward, Lurline Gardons, Battersea Park, physician and surgeon.

Summers, William, Allendale Town, veterinary surgeon.

Young, Robert John, late of Torrington, now of Stockton-on-Tees, formerly chemist and druggist, now assistant chemist and druggist.

ADJUDICATIONS.

Broadway, Siglsmund Aiexander Wiiliam Edward, Lurline Gardens, Battersea Park, physician aud surgeon.

Coiller, George Henry Christian, Chingford, mineral-water manufacturer.

Engiand, Edwin Parsons, Leiecster, aërated-water manufacturer. Noad, Henry Carden, West Norwood, surgeon.

Young, Robert John, late of Torrington, now of Stockton on-Tees formerly chemist and druggist, now assistant chemist and druggist.

ORDER MADE ON APPLICATION FOR DISCHARGE.

Owen, Richard Foster, Holloway Road, Upper Holloway, late of Southport, physician and surgeon—dischargo suspended for threeweeks from May 15, 1891.

SOAP FOR CELLULOID AND VULCANITE.—Boil together 20 parts of cocoa nut oil and 10 parts of soda-lye, 40°B.; then add 15 parts of finely-powdered pumice stone, and perfume with lavender, or a mixture of oil of lavender 6 parts, oil of thyme 6 parts, and oil of rosemary 4 parts.

Pharmaceutical Society of Freland.

THE monthly meeting of the Council was held on Wednesday, June 3, at 11 Harcourt Street, Dublin, the President, Mr. William Hayes, in the chair; and there were also present the Vice-President (Mr. W. F. Wells), Dr. Burnes, Professor Tichborne, Messrs. Beggs, Grindley, Simpson, Robinson, Moore, Gibson, Merrin, Rankin, Johuston, and Boyd.

THE MISSING JUBILEE ADDRESS.

The PRESIDENT observed that allusion had been made in some of the trade journals to the circumstance that no congratulatory address had been presented by the Council of the Society to the Pharmaceutical Society of Great Britain upon the recent occasion of the completion of its centenary. The facts were that a week after the last meeting of the Council he received an invitation, as president of the Society. to attend the centenary celebration meeting and dinner at Bloomsbury Square. Not being able to accept the invitation, he declined it with thanks; hut as no previous notification of the centenary had heen received, there was no opportunity of summoning a special meeting of the Council for the purpose of adopting an address.

MR. WELLS CORRECTS LAST REPORT.

The VICE-PRESIDENT said he felt it necessary to correct an inaccuracy in the report of the proceedings of the last meeting of the Council. He was made to say, speaking of the English examinations, "that there was some talk of having only one examination for pharmacists' assistants and for Preliminary candidates." What he said was, that "there was a great deal of talk ahout, and a good many were in favour of, doing away with the Minor as a qualifying examination, and of having only one qualification—namely, that of pharmaceutical chemist." Another examination would be substituted for the Minor, which would have to be passed after apprenticeship, but would not qualify to keep open He remarked that that would be an arrangement similar to what the Council were about establishing for assistants here.

RIVAL LANGUAGES.

The Registrar, Mr. Ferrall, read a letter from the Privy Council inquiring why, in the arrangement of the Preliminary examination marks, a smaller number of marks had heen allotted to Latin than to English, as it was the opinion of the Committee of the Council that Latin was an equally important subject. Mr. Ferrall stated that hy direction of the President a reply had heen sent to that letter stating that, in the opinion of the Council of the Society, it was much more important that their candidates should have a thoroughly good English education than that they should have a moderate knowledge only of hoth Latin and English.

The PRESIDENT: Gentlemen, are you satisfied with the

reply? The Vice-President: I think it ought to be entered on

The reply was approved of.

WHAT IS A DRUGGIST?

A letter was read from the Privy Council stating, with reference to two applications for registration as chemists and druggists, that the matter was not one in reference to which the Privy Council could advise the Council of the Society.

The REGISTRAR stated that one of these applications was from Mr. John J. Cowley, of Rathdrum, and the other from

Mr. Michael Lavan, of Ballyhaunis.

The President: It was decided at the last meeting to refer these applications to the Privy Council, and now they refuse to have anything to do with the matter.

Dr. BURNES: The Privy Council virtually nphold the de-

cision of this Council.

The REGISTRAR: There are further applications from these gentlemen which can't come before the Council

day. Mr. Cowley has sent in a fresh declaration. The President: We have heen talking all these things over anxiously, and if we can find any way hy which we can admit anyone who is at all entitled to it we shall be pleased to do so. At the same time, the Committee have to endeavour to do what is right as regards those who are on the registers, as well as those wishing to be admitted.

The REGISTRAR, in reply to a question from a member, said Mr. Cowley had heen in business since a long time hefore 1875, hut he was not a druggist, he was only a

The PRESIDENT: After having admitted some persons, we received letters of remonstrance from others in the same town saying that it was a most unfair thing to admit persons who were only grocers, and we found that we had heen imposed upon in one or two cases.

The VICE-PRESIDENT: We have evidence of such a character that if we sent it to the Attorney-General he would he hound to have the parties prosecuted for perjury.

Mr. MOORE: What is the definition of a druggist?

The VICE-PRESIDENT: In a great many cases men have styled themselves grocers and druggists, and we have registered them.

The PRESIDENT: And, in addition, some who did not style themselves druggists have shown us, hy their invoices, that they dealt very largely in drugs, and we have endeavoured to admit them; hut it does not follow that every man who sells a few pounds of sublimate or arsenic is entitled to style himself a druggist.

Dr. BURNES: It is time that the rights of the chemists and druggists should he defended from not only the pharma-

centical chemists hut also from the grocers.

The VICE-PRESIDENT: One of the two applicants wrote stating that he never styled himself a druggist or kept a poisons' hook; and he only produced one invoice to prove that he was in husiness prior to the Act. He refused to sign our form.

The REGISTRAR: He claimed as a general merchant.

The President: If Mr. Moore were on the committee he

would see how difficult it is to do right.

Mr. Moore asked what evidence was really wanted. The applicant might not he able to produce invoices. Very few people after they settled their quarterly accounts kept invoices at all; they destroyed them. His point was that if the committee had proof from a house like his own or that of McMaster, Hodgson & Co. that a man had heen dealing

in drugs that ought to be sufficient.

The PRESIDENT: I think we have passed everyone that it was possible for us to pass. We have not thrown out a single one who gave evidence that he dealt in drugs largely

and in a general way, even though he was a grocer.

Mr. Moore said his house was most particular in writing nothing that they could not stand by. Within the last ten days they had had applications to write out invoices of transactions hefore 1875, and to add some poisons.

The VICE-PRESIDENT: Our friends in Belfast will tell you

that one gentlemen got lahels printed with 187- on them.

The President: This discussion is a little out of order, hut I am not sorry that we have had it.

Mr. BOYD suggested that the cases of Mr. Cowley and Mr. Lavan, be reconsidered.

The REGISTRAR: Their applications will he before the committee again.

REGULATIONS FOR EXAMINATIONS.

A letter was read from the Privy Council enclosing copies of three orders approving of (1) new regulations for the Preliminary examination, in which some alterations were made; (2) a regulation cnabling candidates who had passed the Preliminary examination of other societies to come in for the Pharmaceutical examination within a year; and (3) a regulation that assistants who had heen in husiness before the passing of the Act of 1875 should he accepted for examination on the same terms as those who went into husiness subsequently.

Mr. RANKIN said the last-mentioned regulation should have been framed so as to include those who were serving their apprenticeship at the time of the passing of the Act

of 1875

The President said that it was he who drafted the regulation, and it was indicated to him that if it were made to include apprentices it would be opposed. It was not his own intention to have included apprentices.

Mr. SIMPSON: How many apprentices would there be-I

suppose 100 at the most?

Mr. RANKIN: It would mean about 50 in the North.

The VICE-PRESIDENT: It would mean a loss of 1l. 13s. for each man.

Mr. GRINDLEY: You might as well hring in druggists'

porters.

Mr. RANKIN: When those young men whom I desired to include went into husiness there was no Act at all. The case of those who went into business after the passing of the Act of 1875 is different.

The Vice-President: A man who has had twenty years' experience ought to be able to pass the Modified examination. It is simply a matter of letting them in at a lower

scale of examination fee.

ACCORDING TO REGULATIONS.

A letter was read from Mr. A. H. Jones asking to he allowed to present himself at the Licence examination at the expiration of one year from last April. He stated that he had served three years' apprenticeship to an apothecary, and that hefore April, 1892, he would have been a year carrying on husiness on his own account as a registered chemist and druggist. He passed the Society's Preliminary examination last April.

The PRESIDENT: It cannot be done.

ANOTHER CORRECTION.

Mr. Rankin said he desired to correct an error in the report of the proceedings of the last meeting of the Council. He was reported as having said that "they had nothing to do with what chemists and druggists might he doing throughout the country." What he said was that "the Council, while dealing with the certificate question which was then hefore them, had nothing to do with what chemists and druggists might be doing through the country: that they had plenty of power under their Acts to deal with them."

CORK CONTENTED NOW.

A letter was read from Mr. William Deane Bateman, enclosing a petition from applicants in Cork, praying that an examination under section 7 of the Pharmacy Amendment Act might be held in that city, notwithstanding that there were not twelve candidates.

Professor TICHBORNE moved and the VICE-PRESIDENT

seconded that the application he complied with.

Mr. GIBSON: How many applicants are there?

The REGISTRAR: Three.

The motion was unanimously agreed to.

THE DRUGGISTS PUT ON THEIR BEHAVIOUR.

Mr. GIBSON moved, pursuant to notice, that regulation 15, in the Calendar for 1891, which provides that the president, vice president, and hon. treasurer must he elected from members of the Council who are also members of the Pharmaceutical Society he rescinded. He believed that that regulation was unjust and illegal. It was passed on Novemher 29 last, hefore representatives of the chemists and druggists had seats on the Council, and he thought it would have been more hecoming to have kept the matter over, in order to afford them an opportunity of speaking on it. Again, it was illegal heeause, under sections 13 and 14 of the recent Act, the representatives of the chemists and druggists were members of the Council, and, as such, under the Act of 1875, which was to be read with the other, they were entitled to be elected for the offices in question. What was thus given hy the statutes no regulation of the Council could take away. While the Amendment Act was before the House of Lords an attempt was made to make this proviso part of it, hut the House of Lords refused to sanction it. The making of the regulation afterwards hy the Council was getting the thing in hy a back door. They were all members of the Council, and he objected to a ban being put on any of them. It was starting the new Act in the same way as the previous Act was ehopped up as regarded the rights and privileges conferred on the chemists and druggists, which were taken from them by regulations.

The VICE-PRESIDENT: No. Name one privilege that was taken away. You have made a charge against the Council. Prove it hy giving an instance of anything that we took

away from the rights of the old druggists.

Mr. GIBSON: It is not necessary for me to name one i stance, because the whole course they adopted——

The VICE-PRESIDENT: That is very wide.

The PRESIDENT: Mr. Gibson, I don't think you should make a charge unless you can prove it.

Mr. GIBSON: I am not accustomed to make charges that I cannot prove. The by-laws that you passed took away—

The VICE-PRESIDENT: Name a single item.

Mr. Simpson said Mr. Gibson ought not to make statements that he could not substantiate.

Mr. MERRIN: I think the statement should he withdrawn.

Mr. GIBSON said the intention of the original Act was that there should be two grades. Were they established?

The PRESIDENT said the old Council considered that matter from the very beginning, and found that if they created two grades both would he doing the same work; and the druggists of the period themselves preferred that there should he only the one grade, with power to compound physicians' prescriptions. It was therefore unfair to he reiterating this charge ahout the non-establishment of the two grades.

Mr. BEGGS, as a memher of the old Councils, called on

Mr. Gibson to withdraw his statement.

Mr. GIBSON: Well, Mr. President, you and the other memhers of the Council seem to have rather misunderstood what I

intended. (Laughter.)

The VICE-PRESIDENT said that, at the request of the Dublin and Belfast druggists, the Council sent a deputation to the Government, asking them to give power to register the old chemists and druggists who would not have the right of dispensing medicines, hut the Government would not do it.

Mr. GIBSON: I heg to withdraw what I said—(applause)—hut I think that by rescinding the clause to which my present motion relates the Council will he doing a fair

thing.

Mr. Boyd said he seconded Mr. Gihson's motion for two reasons. The first was that any gentleman who was worthy of heing elected a memher of the Council was, he submitted, worthy of being elected to any of its offices. The second was that this very proviso was one which the House of Lords refused to sanction as part of the Bill after it had heen keenly fought before them. Therefore, the Council had no business to have submitted such a regulation to the Privy Council, and he was sure that the latter had given their assent to it under a misapprehension.

Mr. RANKIN supported the motion. The Council were amply safeguarded by the existing state of the representation. The druggists did not aspire to the offices in question, hut they objected to the slur which was put upon them hy

the regulation.

The VICE-PRESIDENT said that while the Amendment Bill was before the House of Lords the pharmaceutical chemists proposed that it should appear on the face of the Act that a chemist and druggist or a druggist should not he president or vice-president of the Society. The Earl of Erne, who was the druggists' representative, said that it would be hardly fair to put it into the Aet, as it would he a slur on the druggists; and the Marquis of Waterford, the able representative of the pharmaceutical chemists, asked them was it worth fighting for, saying, at the same time, "You will always have a majority." The Earl of Erne said he thought nohody but a pharmaeeutical chemist should ever hold the positions in question. Consequently the matter was not discussed in the House of Lords, and the representatives of the pharmaceutical chemists withdrew their proposal. Afterwards, when the Council came to consider the matter, they found grave difficulties in their way. He was sorry to be ohliged to say that there was not union amongst them yet. The pharmaceutical chemists were suspected still. They did not get credit for being honest with the druggists; they were looked on as if they were doing everything they could to keep them from heing registered. Would it do to put tho gentlemen who were now mixed up with the chemists and druggists as a hody, and who were yet fighting against them (the pharmaeists) in as President and Vice-President of the Society when by virtue of the offices they would become members of all the committees, including the Law Committee, which had to deal, and was dealing at the presen

moment, with cases of illegal dispensing? They would be in the unfortunate position of taking proceedings against some of the men whom they were there to represent. Unfortunately men were breaking the law, and it would be the duty of the Council to make examples of them. Therefore he thought it would be a very unwise thing to alter the regulation in question at present. He believed that if they had pressed it in the House of Lords they would have got it into the Act. But it was now in the Calendar, and stated in such a way that not one person in fifty would notice that druggists were not allowed to take the chair. Therefore he must oppose the motion.

Mr. Moore said he did not aspire to any of these positions, but he thought it a matter of justice to the druggists that the regulation in question should be rescinded. The unpleasantness to which Mr. Wells had referred would pass away. They were in their infancy, and after a year or two

all those difficulties would have vanished.

Dr. Burnes: The certificates have to be signed by the President of the Pharmaceutical Society. I do not see that it would do to have them signed by a chemist and druggist,

or by a druggist.

Mr. ROBINSON said he thought Mr. Gibson would have acted more in the interests of the chemists and druggists if he had postponed this motion for a year or so; and probably then not one of them would have any objection to it. A great deal had been said about the state of affairs at present. The Council had shown that they were desirous of assisting and encouraging every druggist to become registered, but they could not shut their eyes to the fact that some of the chosen and selected representatives of the chemists and druggists had stated there publicly that if they did not get what they wanted they would repudiate the authority of the Council and its officers, and issue a certificate for themselves. As a pharmaceutical chemist, he (Mr. Rohinson) objected to the offices in question being thrown open at present to members of the Council who were in such a frame of mind. Gentlemen who should be elected to those offices would govern the interests of the pharmaceutical chemists; and he objected to that unless they became members of the higher By and by, when everything should be smoothed down and all should see that they had a common interest, these offices could then be thrown open.

Mr. MOORE: Ou hehalf of the druggists of Dublin I repudiate the reference which this gentleman has made.

Mr. ROBINSON: Which reference?

Mr. MOORE: As to our wauting to issue our own certificates.

The VICE-PRESIDENT: You are only doing what Mr. Boyd

did on the last day.

The PRESIDENT: I am glad to hear Mr. Moore make that statement. I helieve that the gentleman who made the statement which is now repndiated did so in the heat of the moment, and in a cooler moment would not have done so. He (the President) did not think that this by-law was brought in for the purpose of in any way hurting the feelings of the chemists and druggists throughout the country. On the contrary, it was done from a sense of what was right, and he thought the time would come when the Council would be a united body, and would feel it a privilege to ask the Privy Council to amend the by-law; and possibly in future years they would be proud to see a druggist President of the Council. At present he thought it would be unwise to dispense with it.

Mr. BoxD: Perhaps Mr. Gibson, with the consent of the

Council, will withdraw his motiou.

Mr. Gibson: All right, Mr. President; I withdraw it with pleasure, (Applause.)

DATE FOR ASSISTANTS' APPLICATIONS.

Mr. S. P. BOYD, M.A., moved the following resolution:-

That the Privy Council, having approved of the resolution passed by this Society on January 15, 1891, admitting those who were assistants prior to August 11, 1875, to become registered as "druggists" under the provisions of section 7 of the Amendment Act, the time for receiving applications from such assistants be extended to August 18, 1891.

In consequence of the delay which had taken place before the approval of the Privy Council was given to the resolution passed by the Council on January 15, it had become

absolutely impossible for the assistants to comply with the provision of section 7 of the Act that they should make their applications to be registered on or before June 1 in the present year. Consequently the extension of time which his motion proposed was absolutely necessary.

The VIOE-PRESIDENT seconded the motion, which was

passed.

SCHOOL MATTERS.

A report was read from the School Committee.

The PRESIDENT said he had received a letter from Dr. Ninian Falkiner withdrawing the application which he had made for leave to take pupils, and stating that he would adhere to the terms of his appointment so long as he should continue to be an examiner for the Society.

The report was adopted.

CHEMISTS AND DRUGGISTS.

A report was read from the Declarations Committee, from which it appeared that the following gentlemen have been accepted for registration as chemists and druggists who had been in business prior to August 11, 1875:—

Beatty, Alexander, Ballymena Buckley, Cornelius, Maynooth Lyons, Robert, High Street, Omagh Johnston, Mary Eliza, Glenavey, co. Antrim

Antrim Keary, Patrick, Woodford, co. Galway Mahaffey, James, Belturbet
Plunkett, George, Market Street,
Trim
Price Coorge P. 59 Novre Reed

Price, George R., 59 Moyne Road,
Dublin
Smithwick, John Francis, High

Smithwick, John Francis, High Street, Kilkenny

On the motion of Mr. MOORE, seconded by the VIOE-PRESIDENT, Mr. Joseph Smyth, chemist and druggist, of Wicklow, was admitted an associate druggist.

THE PRESIDENT'S ABSENCE.

The PRESIDENT: I have to mention, and the announcement is a painful one to me, that this is the last meeting of the Council that I shall be able to attend, at all events for the next five or six months. I have, unfortunately, to accompany a sick son to Australia, and I shall be obliged to leave with him at the end of this month. At the time I accepted my present post I had not the most remote idea that I would be called on to fulfil that duty, but I have since found that I cannot avoid it. Mr. Wells, as your Vice-President, will, of course, take the chair until October, when you can elect as your President whoever you shall think will serve you best. I had not at first desired to continue in office longer than October, but we have been getting on so pleasantly at the last two meetings that I would not have any objection, if it should he your wish, to continue on a little longer. At the same time I do not aspire to the position if there be anyone else that you wish to place

Mr. GIBSON: We are all very sorry that you have to leave us, and are glad that you place your services at our dis-

posal for the future.

The VICE-PRESIDENT: I am sure I express the feelings of all present when I say that we hear with great sorrow of the cause which obliges Mr. Hayes to leave us. I would ask him to allow us to nominate him again for the office of President in October.

The PRESIDENT: I have indicated that if it should be the wish of the Society I shall feel it my dnty not to shirk the duties of office. I hope to be back not later than the first meeting of the Council in January next; possibly I

may be back by December 1.

Mr. Moore said he endorsed all that Mr. Wells had said, and heartily sympathised with Mr. Hayes in his present positiou. He had known Mr. Hayes for a great number of years, indeed, since he served his apprenticeship with him, and there was no member of the Council whom he would

rather see President than Mr. Hayes.

Mr. RANKIN said he would add that as loug as Mr. Hayes desired to continue in office they felt that they would be only honouring themselves in putting him into the chair, for he had all along acted in a wise and discreet manner during the crisis which the Society had experienced. He had always taken a fair view of the questions that had arisen between the two parties, and if he desired to continue louger in office, their opinion was that he was deserving of the honour. (Applause.)

The Council then adjourned.

THE PHARMACY ACTS AMENDMENT BILL.

T is now officially notified that the Pharmacy Acts Amend-

ment Bill has been dropped.

During the Session two petitions have been presented against it, and none in its favour. The first petition against it was from "the botanists and herbalists of Leeds," who prayed for its rejection. That petition bore thirty-five signatures, and was presented by Mr. Jackson. The other, from twenty-eight pharmaccutical chemists and chemists and druggists of Leeds, was presented by Mr. H. Gladstone, and has been printed. It was in the following terms:—

The humble petition of the undersigned,

Sheweth

That we, the undersigned pharmaceutical chemists and chemists and druggists of Leeds and district respectfully call the attention of your honourable House to a Bill, entitled "An Act to amend the Pharmacy Act 1868" now before you, and respectfully point out:

That in this Bill it is sought to restrict the compounding of physicians' prescriptions to all persons registered under the Act of 1868; or to be registered under this Act, or to unregistered persons acting under the supervision of such

registered persons.

That in large towns there is a great number of retail chemists who cannot afford to keep a registered assistant, and in the country towns and villages of Great Britain it is customary and convenient for the chemist and druggist and advantageous for the public for apprentices to be employed; in fact, these are the great training ground for the trade, and such youths after two or three years' experience are quite competent to dispense prescriptions, and are doing so at the present time in hundreds of cases.

That no evil or injury to the public has resulted from such

a course.

That if the 7th Clause of the Bill was allowed to become law it would render all junior assistants in the dispensing department unavailable, which would be a serious inconvenience to the public, as during the absence of the principal through illness, no prescription could be compounded without rendering the youth liable to a penalty, though he may have dispensed the same prescription many times previously, and in some instances of temporary absence the importance of being able to get medicine in a severe case of hemorrhage might be the saving of life.

Your Petitioners therefore pray your honourable House to

reject the said Bill.

And your Petitioners will ever pray, &c.,
SAMUEL TAYLOR, WILLIAM HARRISON, RICHARD TEBBS, &c.

THE BRITISH PHARMACOPŒIA.

SIR RICHARD QUAIN, President of the General Medical Council, in performing his last act as chairman of the Pharmacopæia committee, had a very satisfactory report to submit, showing that from the beginning 100,000 copies of the British Pharmacopæia have been sold. This is shown in an interesting historical sketch by the registrar, which is as follows:—

On November 24, 1858, very soon after the formation of the Council, the first steps, as directed by section 54 of the Medical Act (1858), were taken towards the preparation of the British Pharmacopæia by the appointment of a committee having that business specially in charge, and consisting of the following members:—Dr. Christison, Sir James Clark, Bart., Dr. Apjohn, Dr. R. C. Williams, Mr. Nussey, Dr. Thomas Watson, Mr. Green, Mr. Syme, Dr. Andrew Wood, and Dr. Leet. Dr. Garrod was invited to act as secretary. This committee was divided into three sub-committees, one consisting of Sir James Clark, Bart., Mr. Nussey, Dr. Thomas Watson, and Mr. Green, meeting in London; another consisting of Dr. Christison, Mr. Syme, and Dr. Andrew Wood, meeting in Edinburgh; and a third, consisting of Dr. Apjohn, Dr. R. C. Williams, and Dr. Leet, meeting in Dublin; and they requested the co-operation of the Royal Colleges of Physicians and the Pharmaceutical Society of

Great Britain, who all appointed delegates to assist the subcommittees. Mr. Squire also was invited to, and did, assist the committee with his advice. On May 20, 1862, the General Council, having resolved itself into a committee of the whole Council, adopted the manuscript, which had been prepared under this committee's supervision, as the Pharmacopæia; and appointed the executive committee to act in conjunction with the Pharmacopæia committee in order to carry out the printing and publication of the work. Two sums of 500% each were voted to the committee by the Council to defray their expenses in the preparation of the Pharmacopæia. Unexpected difficulties, however, arose in carrying out this work, and it was not until November 6, 1863, that they were overcome, whereupon the publication took place, and two editions were printed, the one a volume in demy 8vo., of which 13,000 copies were printed, and the other a volume in double crown 32mo., of which 15,000 copies were printed. Of this edition, owing to objections raised, it was found necessary to destroy the larger part—viz, 14,179 copies—thereby entailing a loss of 1 206%, the cost of the preparation of this first edition having been 6,2291, and the total receipts from its sale 5,023l.

On April 27, 1864, it was resolved, on the motion of Dr. Quain, that a new edition should be undertaken, and that the following members should form a committee for the purpose:—Dr. Christison (chairman), Dr. Sharpey, Dr. Apjohn, and Dr. Quain (who consented to act as honorary secretary). This committee engaged the services of Mr. Warrington, F.R.S., of the Society of Apotheearies, and Dr. Redwood, of the Pharmaceutical Society, to aid in the preparation of the work. On March 26, 1867, this committee presented to the executive committee the finally-revised proof of the second edition of the Pharmacopæia, which was subsequently approved by the general council. Of this edition 40,000 copies were finally issued. On June 3, 1967, a sum of 500% was voted by the Council as an honorarium to the

members of this committee.

In 1885, a third edition of the work was prepared by a committee consisting of Dr. Quain (ehairman), Dr. Aquilla Smith, Sir Henry Pitman, Professor Maenamara, Mr. Bradford, Mr. Collins, and Dr. Haldane, and produced under the supervision of Professors Attfield, Bentley and Redwood Of this edition 20,000 copies were issued in the first instance; and in 1886, 1887, 1888, and 1890, reprints of this edition, each numbering 3,000 copies, were issued, thus making a total of this edition up to the present date of

32,000 copies.

In 1874, there was prepared and published an Addendum to the Pharmaeopœia of 1867, of which Addendum 15,000 copies were issued. In 1890 there was published an Addendum to the Pharmacopœia of 1885, edited by Professor Attfield, of which, up to the present time, 10,125 copies have been issued. In the preparation of this Addendum important aid in the selection of the articles suitable for admission to it was rendered by several of the medical authorities, whilst the Council also received special and valuable assistance in the preparation of the work from a committee of the Pharmaceutical Society of Great Britain. Altogether, therefore, there have been issued 100,000 copies of the British Pharmacopœia, and 25,125 copies of the Addenda.

A unanimous and hearty vote of thanks was accorded to Sir

A unanimous and hearty vote of thanks was accorded to Sir Richard Quain for his services regarding the Pharmacopæia, "the result of which had been," said Dr. Maenamara, in seconding the motion, "that through his indefatigable exertions a Pharmacopæia had been produced which had not only been a pecuniary success, but had been a credit to

the country from which it emanated."

Professor Attfield also reported that he has "made a record of all published criticisms and technical suggestions respecting the Additions to the Pharmacopolia, issued last December, that seemed likely to be of service in the production of a future Pharmacopolia. So far these have been very few in number. The Addendum has hitherto been most favourably reviewed by the Press, both in Europe and America, and it appears to have given general satisfaction to medical practitioners and pharmacists." He hoped to have his report for 1890 ready shortly, and the committee was instructed to receive and publish it. Professor Attfield was also requested to prepare the report on the Pharmacopolia for 1891, and the usual honorarium was voted to him.

DISSOLUTION OF AN OLD BUSINESS.

ON Monday afternoon about three dozen people mct at 217 Edgware Road as participators in and spectators of the dissolution of the drug business established there in 1823that of J. Watts & Co. It was a well-known business in its day, and has had many a bright-light of pharmacy associated with it; hut latterly the death of the proprietor and keen competition have driven it down to zero. The shop occupies a commanding position at the south corner of Praed Street, and has a good house attached to it. But the rent is too high to warrant pharmacy being practised in it any longer, hence the proprietor's widow has disposed of the lease, and, having failed to meet a buyer of stock and fittings privately, the anctioneer was called in to dispose of them. So what it took sixty-eight years to build up was now knocked down in as many minntes. Before Mr. Gilbert (of Norton, Trist & Gilhert) attacked the thirty lots into which the goods were divided, he made a sympathetic appeal to the company to bid well, the vender being a widow. This hrought a "Hear hear" and a smile; but when Mr. Gilbert asked 5l. for the mahogany and glazed enclosure of the Edgware Road window, which is 11 feet long, "five shillings" was the response, and it was ultimately sold for 15s. The contents brought some lively bidding. In one corner there were about four dozen boxwood-cased stoppered bottles, from 1 to 4 oz., in another a few sponges, a dozen aurilaves, specialities, and the like. The centre had a neat small tier in red baize with mirror backs for bottles (about a dozen 1s. mag. cit. on it); five mahogany medicine-chests-four 21. 2s. and one 61. 6s. ones; a tooth-brush case and a few dozen brushes, as well as specialities, feeding-bottles, and the like. The whole brought only 3l. After selling the enclosure of the Praed Street window, the auctioneer had hard work to get the contents of the upper part of it to go. Yet it was all valuable chemical apparatns, chiefly glass, and new. On one shelf were about a gross of beakers and graduated measures, a number of finnels, Kipp's gas apparatus, potash absorptionbulbs, safety funnels, Soxhlet's apparatus, retorts, flasks, a neat little still in tin with Liebig's condenser, and other usefnl apparatus-201, worth at least, and a druggist had the whole for 35s. The sundries in the lower part, consisting of feeding bottles, invalids' feeding cups, surgical specialities. &c., brought only 28s., and were worth at least six times as

Working round the shop the anctioneer came to a good mahogany wall-case, with shelving at sides and cupboard helow. That sold for 3l. The case contained a good selection of saleable patents and specialities, a number of 2s. 9d. and 4s. 6d. articles amongst them, and the shelves three dozen 20. oz. W. M. shop-rounds with gold labels. A pound of potassinm cyanide and some other poisons were amongst the drngs. The lot for 24s. Some more fittings were then disposed of, the bidding coming mainly from dealers, amongst whom was a little rivalry; but they never succeeded in exceeding the value of what they bought, and it happened now and then that they got stock along with fittings. For instance, there was the mahogany counter, 19] feet long, well-fitted with drawers and with a 4-foot dispensing screen on the top. This, with the odds and ends in the drawers (we all know the snrprises that one meets with in an old counter), sold for 71., after brisk bidding. The man who bought the desk with the handsome upright case in front for 52s. had it cheap, the perfumes and patents in it being worth more than that. Next, the drawers and fittings, a range of 24 ft. 9 in., in mahogany, drawers numbering 155, and shelves seven. The contents of the drawers were included, and 81. 10s. was the snm they brought. The bottles, jars, carboys, and their contents were offered in three lots; most of the Part II. poisons were amongst them, and the bulk was sold to non-professional men for 8l. 17s. 6d. One item excited much amusement. It was a "7 ft. 6 in. range of painted and grained cupboard, with 3 pairs of panelled folding-doors, and the rare chemicals in ditto." This was the poison enphoard of the establishment, we believe, but what was in it nobody knew, for the key was not to be found. "The assistant assnred me, a day or two ago," said Mr. Gilbert, "that there is no rare chemical which is not to be found

there. The collection is quite nnique, for whenever a thing was wanted it was got and put in stock." "And never wanted again!" cricd someone, amidst the langhter that ensued. The bidding went on, and slowly rose to 31. 15s., at which it stopped. Then we got down to the basement, where there was a 30-inch evaporating-copper, with a draught-hood over it, and a straining-arrangement, which. with a few gas-brackets and other odds and ends, sold for 11s.; the contents of the warehouse for 5l. 5s. (bottles alone worth that); and a large marble mortar, with pestles and other articles in the kitchen, for 17s. The whole amount obtained was 711. 3s. 6d. Of course many of the articles were hopelessly out of date. They were the things that showed that the pharmacy in days gone by had been thoroughly first-class. There was evidence that the owners at one time had intelligently and scientifically practised pharmacy as manufacturers, dispensers, and retailers.

It is unnecessary to enter into the personal associations of the shop, which are honourable, and to a certain degree historic. At one time the business would have fetched a few thonsands; now for less than a hundred it is scattered to the winds. One can forget the bargains in a feeling of regret that the end should be so unfortunate.

Trade Notes.

MR. A. MORYOSEPH, drng merchant, has removed from St. Mary Axe, to Leadenhall House, Leadenhall Street.

MESSRS. HALE & SONS, drug brokers, of Fenchnrch Avenne, E.C., announce that Mr. Hale, the senior partner of the firm, has retired from it in consequence of advancing years, and that Messrs. Bertram S. Strans and Martin Witham Palmer have been admitted into the partnership.

THE HARDY PATENT PICK COMPANY (LIMITED) (makers of the "Devil" disintegrator) is being reconstructed with a view to largely developing their business, and, to carry ont this arrangement, the old company is being wound up voluntarily. The new company will take over all assets and liabilities of the old firm, and will be carried on nnder the same name. The business will not be interrupted.

MESSES. W. T. HICKS & CO. (LIMITED), chemists and druggists, Dnke Street, Cardiff, have this week opened another shop in Queen Street, a short distance from the Taff Vale and Rhymney railway stations. The premises have been handsomely fitted by Messrs. Bowling & Govier, of London. Messrs. Hicks & Co. have also erected in Paradise Place a commodions wholesale drug warehouse, three storeys in height, exclusive of basement, and ten windows in length.

MESSRS. MAY, ROBERTS & Co. are introducing a new insect powder—" Razzia Powder"—which merits the attention of the trade. The powder is made from carefullypicked Dalmatian flowers, which are dried and ground, and the powder packed in tins on the spot. The result is that the powder retains the volatile and active principle of the flowers unimpaired. It is highly effective for the purpose for which it is intended, and is put up in rather an elegant and attractive way by the growers and grinders, Messrs. J. Neumann & Co., of Finme. We notice that the value given is decidedly above the average.

EXCELSIOR AUTOMATIC DISINFECTANT.—This is the name which Wagner & Gerstley (Limited), 8 Moor Lane, E.C., give to an article to which they are calling the attention of the trade. The disinfectant is a solid block of crude naphthalene, which is fixed in a snitable case to be suspended in w.c.'s or any other apartment desired. There is a little door or flap in front, which can be opened or closed as desired. Naphthalene is known to possess antiseptic properties, and has been used both internally and externally by French and German physicians, so that it is reasonable to suppose that the vapour which the "Excelsior Antomatic Disinfectant" emits may possess bactericidal properties. That, however, is a matter which ordinary honseholders seldom trouble themselves about. What they want is an agreeable deodorant, and this we know from experience naphthalene undoubtedly is, and in the handy form in which it is supplied by Wagner & Gerstley it is likely to take well. The form of the article also adapts it for hanging in wardrobes for the prevention of moths, naphthalene being superior to camphor in this respect.



Jordan, an action was brought by the Council of the Pharmaceutical Society against several chemists' assistants employed in Hanley, for selling poisons. The defendants were Elias Russell and James Cornes, employed by the Hanley Drug Company (Limited), 10 Tontine Street, and George Frederick Gray Gardiner and Thomas Kent, employed at the Central Hanley Drug Company's shop at 26 Tontine Street. The claim against Russell was for 10l. penalties incurred on March 25 and April 7, 1891, in selling poisons, to wit—preparations of opium called laudanum, contrary to the provisions of the Pharmacy Act. Against Cornes there were three penalties, the claim being 15l. The claims against Gardiner and Kent were 20l. and 5l. respectively.

Mr. Grey, barrister, of the Temple Chambers, London, appeared to prosecute, and Mr. Hunt represented Russell and Cornes. The other two defendants were undefended.

Mr. Grey explained that the claim was brought by the Pharmaceutical Society under the provisions of the Pharmacy Act, 1868, 31 & 32 Vic. cap. 121. In the cases of Elias Russell and Cornes he could prove that poisons were sold by these two assistants on certain dates.

Mr. Hunt: It is admitted that the poisons were sold.

Mr. Grey said there were fixed penalties of 5l. in cach case the poisons were sold by these assistants, who were unqualified to sell the same.

His Honour: Then I have no discretion as to the penalty.

Mr. Grey observed that the defendants were unqualified to sell poisons, and thus incurred the penalties, which must be 51. in each case. That was the amount fixed by Act of

Parliament.

Mr. Hunt said he could not dispute his learned friend's right to a verdict. He only wished to point out that it was rather hard upon these young men, who were in the employment of the Hanley Drug Company (Limited), which had amongst its shareholders five qualified chemists, and which employed a qualified chemist to manage the shop. When these sales were made they were unfortunately without the qualified manager. What he had to ask was that His Honour would make an order for easy payment of the penalties.

His Honour: I cannot feel disposed to do that; the com-

pany should pay the penalties.

Mr. Hunt: I am afraid the shareholders would complain

at that.

His Honour: These people get cheap servants when they were very well acquainted with the Act of Parliament. It is a very serious thing for the public. Justice Hawkins had stated that the object of the Act was beyond all other considerations to provide for the safety of the public. Had the Drug Company done that?

Mr. Hunt: They tried their best. They have a qualified

assistant now, as they had before.

His Honour remarked that the Act of Parliament stated that unqualified chemists must not meddle with poisons. There was nothing clse for him to do in this case but to inflict the penalties of 5l. on each offence. The total penaltics inflicted in these two cases amounted to 25l.

Mr. Grey explained that there were four offences committed

by the defendant Gardiner.

His Hononr: Why do you go in for so many as that? The object of the society is to put down the practice.

Mr. Grey said he was acting according to instructions. He was bound to say it was not an isolated case. The defendant was an assistant at the Central Drug Company's shop. He was an unqualified assistant, and sold a certain poison, a preparation of opium, called laudanum, on March 23, 1891, also on March 26, and April 1 and 3.

The defendant, Gardiner, was then called, and admitted that he sold the poisons on the days mentioned, and that he

was unqualified to do the same.

His Honour: Well, there is no doubt about it. Arc you an apprentice.

Defendant said he was an assistant.

His Honour (addressing Mr. Grey): Don't you think you had better strike out two cases?

Mr. Grcy: At present I have no instructions. We tried to get Mr. Gardiner to admit it, and had he done so, the analyst's expenses would have been saved.

His Honour thought that considering the defendant's station of life the verdict might be reduced to 20*l*. The master was evidently much to blame, and it was a pity he could not be compelled to pay the penalties.

Mr. Grey eventually agreed to proceed only against two offences, and the penalty inflicted on Gardiner was 10l.

Mr. Hunt said he should be glad if the same course could be taken in the other cases. Cornes was only an apprentice.

Mr. Grey promised to lay the matter before the Pharmaceutical Society.

His Hononr gave judgment for the analyst's fees to be

paid

The case against Thomas Kent was then proceeded with. The defendant said he was an apprentice, and was 16 years of age. He remembered having sold poisons on two or three occasions. He did not remember selling laudanum on March 20. Mr. Gardiner served some one on that date.

Henry Lewis Bain was called, and stated that the defend-

ant sold him the laudannm, produced, on March 20.

His Honour asked defendant what he had to say to that. Defendant said he could not have served witness because he was not at the counter at the time.

His Honour said it was evident defendant had sold ι poison, and the penalty of 5l. and costs would be inflicted.

HOLLOWAY v. BEST.

In the Chancery Division of the High Court on June 6, Mr. Justice Kekewich granted an injunction applied for by Mr. Israel Davis, on behalf of Mr. Henry Driver-Holloway and Sir George Martin-Holloway, trading as Thomas Holloway, of 78 New Oxford Street, London, the proprietors of Holloway's pills and ointment, to prevent the defendant from using their trade-mark in connection with pills. With the injunction, damages and costs as between solicitor and client were granted on terms which had been agreed. Mr. Sapwell appeared on behalf of the defendant.

SEIDLITZ POWDERS PROSECUTION.

On Thursday Messrs. Bain & Thomson, grocers, 333 Garscube Road, Glasgow, were accused before Sheriff Balfour of having on Wednesday, April 29, sold to Inspectors Armstrong and Inglis, of the Glasgow Sanitary Department, a box containining one dozen seidlitz powders, which the public analyst certified were of inferior quality.

Dr. Clark, the analyst, stated in his certificate that the powders were not of the standard laid down in the British Pharmacopæia. They were all destitute of tartarated soda, and contained on an average each 170 grains of bicarbonate of soda, together with 21 grains of sulphate of soda and 56 grains of sugar, the sulphate of soda and sugar boing ingredients extraneous to seidlitz powders, and that on an average each package was deficient in tartaric acid to the extent of 16 grains. A plea of guilty was tendered. Mr. Bain explained that they had no means of analysing the powders they purchased from Messrs. Bell & Co., chomists, and they thought they were pure.

Mr. Lindsay, the prosecutor, said his Lordship would see that they were not scidlitz powders at all; they were just

effervescent drinks.

The Sheriff: What effect would one of them have on a person, just that of an effervescent drink?

Mr. Lindsay: Just so.

The Sheriff: Would they be injurious?

Mr. Lindsay: Oh, no. The Sheriff: Of course, people buying them would buy them for ordinary purposes, and they would have no effect upon them at all ?

Mr. Lindsay: Absolutely none.
The Shcriff (to defendant): I suppose you will have a claim against Bell, for these powders are not of the nature, substance, and quality of seidlitz powders? I suppose you know this Pharmacopæia?

Mr. Bain: No.

The Sheriff: I'll warrant you Bell knows it, or he ought to know it.

Mr. Lindsay: This is just one of the dangers that arise from grocers dealing in drugs.

The Sheriff: Did you just purchase them in the usual way

and pay the ordinary price for them? Mr. Bain: Yes; and we sell them at 1d. each, or a dozen

The Sheriff: Suppose I went into Frazer & Green's for a seidlitz powder, what would I pay for it?

Mr. Bain: They can make them up at any price, but they would likely charge you 2d.

The Sheriff: It is quite clear what you sold were not seidlitz powders.

As this was the first case of the kind, the Sheriff imposed a modified fine of 30s.

WHAT IS A STILL.

BEFORE the Halifax West Riding Magistrates, on June 3 (Mr. W. H. Rawson, chairman), Thomas Illingworth, chemical manufacturer, North Dean, was summoned at the instance of the Inland Revenue authorities for keeping a still without licence. Mr. Alpe, solicitor of the Inland Revenue Department, conducted the case, and Mr. Evans (Godfrey Rhodes and Evans) defended. Mr. Alpc state that the alleged still was used by the defendant in connection with his trade for the purpose of manufacturing sulphate of ammonia. In essentials it resembled Coffey's still, which admittedly was capable of being used for distilling purposes. William David Armstrong, an officer of the Inland Revenue, deposed to seeing the alleged still in use at the defendant's premises on March 6. John Steele, superintendent-inspector of the Inland Revenue, London, stated that he had been thirty-four years in the service of the Inland Revenue Department, and had seen nearly all the distilling apparatus in the country. He had inspected the chemical-works at Salterhebble, and the sulphate-of-ammonia plant there was a very similar sort of apparatus to Coffey's still. There was a boiler or retort at one end, which contained substances, the products of which were vapourised by the introduction of The vapour, which then contained ammonia, was passed into sulphuric acid, and formed sulphate of ammonia -a solid substance. A quantity of waste gases and vapour remained, and these were condensed and used for making sulphuric acid. In his (Mr. Steele's) opinion that apparatus was a still. Cross-examined by Mr. Evans, witness declined to say whether a solid was produced by distillation; but he admitted that in nine cases out of every ten the product was a liquid. In the case of Mr. Illingworth's apparatus, part of the product was a solid. The changes which took place in distillation were usually physicalic., a change of state, say from solid or liquid to gaseous, or vice versa. In distillation it was essential that either condensation should take place, or absorption. George Lewin, analytical chemist, of Somerset House, gave similar evidence. In defence, Mr. Evans contended that the apparatus of Mr. Illingworth did not come either within the words of the Act or within the mischief aimed at by the Act, and that it was not a still. This was a test case, the decision of which would probably affect many gas-works and other premises belonging to local boards and companies in this district. The question was open, uncovered by any authority, and it would be for their worships to say whether a trade such as the defendant's should be harassed by having a licence imposed upon it. They had first to ask what was the definition of a sill. He had consulted several dic-

tionaries, and found that a still, in its literal acceptation, was a something which caused a "drooping" or produced liquor. Coemical treatises gave a similar definition, and also showed that distillation was a physical process, in which evaporation took place, followed by condensation. In Mr. Illingworth's apparatus the product was not a liquid, but a solid, and practically no condensation took place. There was no reason for condensation, and if slight condensation did take place, it was because it could not be prevented. Then, again, the changes were almost entirely chemical, and not physical, and therefore he put it to the bench that the apparatus was not a still. The intention of the Act was to prevent the manufacture of liquors which were illicit, and to prevent other stills being nsed, without the knowledge of the authorities, in which that class of liquors could possibly be made. It was not to be said for one moment that they could possibly thrn a single glass of whiskey from Mr. Illingworth's apparatus. They could only produce a solid.

William Ackroyd, analytical chemist, Halifax, gave evidence in support of Mr. Evans' statement, and expressed

his opinion that the apparatus was not a still.

Mr. Alpe replied on behalf of the Crown, and the bench retired to consider the case. On their return the Chairman said: "The justices are of opinion that this still is not within the meaning of the Act, and we are therefore bound to dismiss the case.'

BANKRUPTOY REPORTS.

Re WILLIAM ERNEST GOODWILL, 109 Newtoun Road, Birmingham, Chemist and Druggist.

THE first meeting of the creditors under this failure was fixed for June 5, at the office of the Official Receiver, Birmingham, but only one creditor was present. The statement affairs disclosed liabilities to unsecured creditors, 931. 9s. 11d, and assets: stock-in-trade, 35l.; fixtures, &c., 31.; furniture, 11.; book debts, 33. 61.; total, 391. 3s. 6d; but as 30%. 11s. has to be deducted for preference claims, the net assets stand at 8l. 12s 6d.

The Official Receiver reported that the debtor commenced business as a chemist in December last year with a capital of 201. advanced by his father. The shop he opened had been closed for three years, and he found a considerable difficulty in working up a connection. His wife had been ill, and he had lost 10% by a fire, through not being insured. He became aware of his insolvency in April last. His failure was attributed to "illness of wife and losses through fire and bad trade."

Mr. Seymour Price, who represented the debtor, said he had no offer to make. Mr. Canning (creditor) wanted to know to whom the business at Scarborough belonged? The bankrupt explained that it was his father's. He was an hotel-keeper at Scarborough and the owner of the shop, and having become possessed of the stock of a former tenant, who was a chemist, and not being able to let the shop, reopened it as a chemist's, and he not being a duly qualified chemist engaged the bankrupt, who was qualified, to manage it. He received a salary, and if he could have made it pay it would probably have become the bankrupt's at his father's

The Assistant Official Receiver inquired if it was usual for a non-qualified man to open a chemist's shop? The bank-rupt said it was quite a common practice. In reply to further questions by Mr. Canning, the bankrupt denied that his father had ever said the Scarborough business was his (bankrupt's). His father would never say this, because all goods were paid for by him.

This being a summary case the Official Receiver remains trustec. The principal creditors are :-

		£	s.	d.
Canning, W. & Co., chemists, Birmingham	• •	16	2	11
Cawood, -, Hull		12	8	6
Goodwill, B., Scarborough		20	0	0
Harris, P. & Co., chemists, Birmingham		10	8	9
Hockin, Wilson & Co., Tottenham Court Re	bec	8	11	9

Re Francis George Hall, Newbrry, Berks., Chemist and Druggist.

THE Official Receiver for the Newbury district has issued particulars under this failure to the creditors interested therein. The statement of affairs discloses gross liabilities amounting to 2,462l. 18s. 1d., of which 389l. 17s. 1d. is due to nnsecnred creditors; to fully-secured creditors, 9411 17s.6d.; the value of the securities being returned at 1,180l., thus showing a surplus of 238l. 2s. 6d., which is earried to contra, and to the partly secured creditors. To partly-secured creditors 1,128l 13s. 6d., the value of the securities being estimated at 767l. 2s. 6d, thus leaving a balance of 361l. 11s. to rank against the estate for dividend. To preferential creditors, 2l. 10s., which are deducted per contra. The total liabilities expected to rank against the estate for dividend are returned at 7511. 8s. 1d. The assets are as follows:— Stock-in-trade, fittings, trade-fixtures, &c., estimated to realise 1101.; furniture, estimated to produce 1001.; bookdebts (good), 47l. 10s. 8d.; doubtful and bad debts, 59l. 9s. 1d, the value of them being returned at 4l. 14s.; to surplus from securities in the hands of fully-secured ereditors, 51. Total assets, 2671. 4s. 8d, and which, after deducting the claims of preferential creditors, payable in full, disclosed a deficiency of 436l. 13s. 5d.

The report and observations of the Official Receiver state that the receiving order was made, on May 11, on the petition of debtor himself. The debtor commenced business as a chemist and druggist in his own name at Newbury about thirty-two years ago, with a capital of 300l. The books of account kept by the debtor were daily-takings book, day book, and ledger, the latter of which shows his accounts with his customers only. No cash book has been nsed, and there appears to be no record of the debtor's transactions

with his creditors.

The Official Receiver considers that the debtor must have been trading for a considerable period after knowing himself to be insolvent. The debtor has no explanation to give as to his present position, except that it is caused by illness and bad debts. He makes no offer of composition.

Re HENRY JOSEPH CURRIE, 22 & 24 Gosforth Street, Fellingon-Tyne, Mannfacturer of Patent Medicines.

The following are schednled as creditors in this recent failure:—

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Re ARTHUR LEONARD THOMPSON, Blackwellgate, Darlington, Grocer and Agricultural Chemist.

This debtor appeared for further examination at the Stockton Bankruptey Court, on June 3. He had filed a supplemental statement from loose papers he could piek up, as he had no books. It showed that from Jannary 1, 1890, to the date of filing his petition he received goods to the amount of 2021. 12s. 11d., and that he had paid creditors during the time 1001. 7s. 4d. All the goods had been disposed of by him except about 5l. worth. He could not say what profit he put upon them from memory, because his memory was a very bad one. He had put down an item of 67l. for lodgings. He paid his mother 15s. a week, and the other 5s. he reckoned for washing and other small items. He helped his mother to wind up his late father's estate for about eighteen

months, so that during that time he could not have paid her the 15s. a week, though previously he swore that he had done so from the time of his father's death. His father died about eight years ago, and debtor carried on the business himself for about the last six years. In 1889 debtor obtained some goods from Messis. Southall, Bros., and Barelay. They were ordered in his own name, and they sued him for them. Their representative (Mr. Watson) used to eall npon him, and debtor wrote a letter saying that he could not possibly think of paying them the amount nnder the eircumstances, as the debt was not debtor's. The Offical Receiver: Was that a lie, sir? Yes, it was a lie. The Registrar: The Arthur Leonard who signed that was yourself? Yes, sir. The Official, Receiver: Arthur Leonard is entirely a fictitious name? Yes, sir. The debtor acknowledged also writing another letter to Mr. Watson, in which he threatened to make it "warm" for him and the firm, and ultimately 3l. was accepted in payment of the account. Questioned as to the signature of "J. C. Thompson" on a bill given to Messrs. Thomson Bros., Stockton, for an account, debtor at first said he didn't know whose it was; then that he didn't like to swear; then that he would not swear he didn't sign it. It might be his brother's signature. Ultimately debtor admitted the signature was his, and that he got the goods. In consequence of further unsatisfactory replies, the Registrar, addressing the Official Receiver, said: "The man has deceived himself so long that if you were to put him on the high road to truth he could not walk ten yards on it." The examination was then adjourned to a special sitting of the court on June 8.

TRADE-MARKS APPLIED FOR.

THE Trade Marks Journal publishes the following notice: -"Any person who has good grounds of objection to the registration of any of the following marks may, within one month of the date of this journal, give notice in duplicate, at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1890, of opposition to such registration." All communications to be addressed to H. Reader Lack. Esq., Comptroller General, at the Patent Office, 25 Southampton Buildings Chaucery Lane, London, W.C.

(From the "Trade Marks Journal," May 27, 1891.)

"THE PHYLLOXERINE," and sketch of shrnb showing parasite; for an insect-destroyer. By The Philoxerine Company, West Ferry Road, Millwall. 151,935.

"CEILEY'S PILLS"; for pills. By R. Ceiley, Chnrch Plain, Great Yarmouth. 154,887.

Sketch of young lady holding smoke-ball to nostrils; for chemical substances used in medicine and pharmacy. By F. A. Roe, 27 Princes Street, Hanover Square, W. 155,698.

"A.1." and signature; for mineral and aërated waters. By Hydes, 73 Monmouth Street, Rnsholme, near Manchester. 154,926.

"NORTH & RANDALL, AYLESBURY," and picture of elocktower; for mineral and aërated waters. By North & Randall, 73 New Road, Aylesbury. 155,101.

(From the "Trade Marks Journal," June 3, 1891.)

Cylindrical design, with wording and signature; for elemical substances used in manufactures, &c., for veterinary and sanitary purposes, and in medicine and pharmacy. By T. Tyrer & Co., Sterling Chemical Works, Stratford, London. 155,264, 155,265, 155,263.

Two clasped hands; for eaustic soda, chlorates, &c., and bleaching powder. By the United Alkali Company (Limited), G.11 Exchange Buildings, Liverpool. 155,620, 155,621.

"HALL'S BACILLICIDE" and "HALL'S BACTERICIDE," with portrait of applicant; for medicines for animals and human use respectively. By E. S. Hall, 1 Rochester Villas, Bromley, Kent. 154,331, 154,332.

Illustration of kangaroo erect on globe; for a sheep-dip. By A. Smith, Excelsior Chemical Works, Manchester. 155,103.

- Circular design, with wording and letters; for sheep-dipping.

 By Wilson & Kitchin, 30 King Street, Whitehaven.

 155,107.
- "BEAURINE," on square design, with monogram; for patent medicines. By H. A. Robertshaw & Co., 35 Horton Street, Halifax. 155,455.
- "ELEPHANT DISINFECTANT COMPANY," and picture of elephsnt and eastle; for a disinfectant. By A. V. Cunnington, trading as the Elephant Disinfectant Company, 86 Camberwell Road, London. 155,732.
- "Lyrsyl"; for chemical substances used in medicine and pharmaey, and for perfumery, &c. By Blondeau et Cie., trading as Vinolia Company, Ryland Road, London. 154,666, 154,667.
- "CALVERT'S MEDICAL SOAP," and other wording on label; for chemical substances used in medicine and pharmacy, and for perfumery, &c. By F. C. Calvert & Co., Bradford, Manchester. 154,864, 154,866.
- "Primiline"; for chemical substances used in medicine and pharmacy. By the London Drug and Dental Company (Limited), 10 New Broad Street, E.C. 154,883.
- Outline sketch of a house, with wording; for cough-mixtures or medicines. By J. A. Mason and Frank Booth, trading as London and Counties Drug Company, 41 Saville Street, Hull. 154,898.
- *HARROLINE"; for chemical substances nsed in medicine and pharmacy. By W. Wyles, H. Wyles, and A. Wyles, trading as the Harroline Pill Company, Harrogate. 155.005.
- "ZYTHADE" on Znln shield; for non-alcoholic, non-medicated aërated beverages. By T. J. Fawcitt, Seaton Carew. 152,414.

(From the "Trade Marks Journal," June 10, 1891.)

- "NATIONAL CARBOLIC," and other wording on label; for a disinfecting soap. By W. Gossage & Sons, Widnes. 155,465, 155,466.
- "BOUTALL'S HEAD, STOMACH, AND LIVER PILLS," on curiously illustrated label; for pills for human use. By G. S. Boutall, 52 Marchmont Street, Russell Square, W.C. 155,819.
- "TESOLIN"; for chemical substances used in medicine and pharmaey. By C. S. Bensted, 10 New Broad Street, E.C. 156,231.
- "DEMON"; for metal drenching-bottles for horses, cattle, &c. By Day & Sons, Crewe. 155,866.
- "K. M. S.," on triangular design; for bisulphate of potassium (for preserving wine, beer, &c.). By A. Boake, Roberts & Co., Warton and Carpenter's Roads, Stratford. 98,326.
- "LEMON SQUASH"; for lemon squash beverage. By Yeatman & Co., Denmark Street, London. 152,815.
- "Humbria," on circular design; for mannfactured liquorice cakes. By White & Son, Spyvee Street, Hull. 153,863.
- "PURE AERATED MILK," and picture of a foaming glassful on circular label; for aërated milk. By J. Crampton, Sawston, Cambridgeshire. 154,345.
- 44 GUARDIAN POPULAR PALE SOAP," and other wording; for perfumed soap. By J. Crosfield & Sons, Warrington. 150.604.
- SMITH'S CAPILLARY TONIC," and other wording on label; for a hair wash. By J. Smith, 9 Duff Street, Greenock. 154,944.
- "Beaurine," monogram and name on label; for toothbrishes, &c. By H. A. Robertshaw & Co., 35 Horton Street, Halifax. 155,456.

POWDERED EXTRACT OF INDIAN HEMP is made, according to New Idea, by saponifying the alcoholic extract with magnesia. This procedure makes the extract absolutely worthless.

NEW COMPANIES.

B. NEWHAM & Co. (LIMITED), with a capital of 10,000l., in 5l. shares. Objects: To acquire the business of a whole-sale druggist and manfacturing chemist, now carried on by Mrs. M. A. Newham, at Shude Lane, Sheffield, under the style of B. Newham & Co., and to carry on business as wholesale druggists, mannfacturing chemists and perfumers. The first subscribers (taking one share each) arc:—Mary A. Newham, Ranmoor, Sheffield, widow; J. A. Brookfield, Ranmoor, Sheffield, chemist; H. W. Smith, Norfolk Row, Sheffield, accountant; A. Giles, King Street, Sheffield, chemist's assistant; Clementina Smith, Spring Vale Road, Sheffield; A. Melliner, Falka Street, Sheffield, leather-worker; B. Bailey, Industry Road, Darnall, contractor. John Arthur Brookfield is appointed first managing director, with a remuneration which is to be determined in general meeting. Registered Office, Shude Lane, Sheffield.

KOND & CO. (LIMITED).—Capital 10,000l., in 1l. shares. Objects: To acquire the undertaking of the Euonymised Cocoa Company (Limited), now carried on at 50 Stafford Street, Birmingham, in accordance with an agreement made between the Euonymised Cocoa Company (Limited), of the one part, and Kond & Co. (Limited), of the other part, and to carry on and extend the said business. The first subseribers (taking one share each) are: -W. Bradbury, Aston, manager; P. H. Cotterell, Alhion Street, Birmingham, clerk; T. W. Cripps, Erdington, accountant; F. D. Eaton, Aston, secretary; D. Griffith, Handsworth, merchant; W. G. Ward, Belgrave Road, Birmingham, manager; F. Griffith, Selborne Road, Handsworth, merchant. There shall be not less than three nor more than seven directors. The first are to be appointed by the signatories to the articles of association. Qualification, 10l. Remnneration to be determined in general meeting.

PHOSPHATE, ALKALI AND CHLORINE COMPANY (LIMITED):—Capital 45,000l., in 10l. shares. Objects: To carry on the trade or business of mannfacturers of phosphate, alkali and other chemicals in all its branches, and to acquire the business of the Lancashire Alkali and Sulphnr Company (Limited). The first subscribers (who take one share each) are:—Jas. Simpson, &A Rumford Place, Liverpool, merchant; Jonas Hirsch, 11 Dale Street, Liverpool, merchant; Jonas Hirsch, 11 Dale Street, Liverpool, merchant; J. Morrow, &A Rumford Place, Liverpool, merchant; W. T. Fiddes, 2 Park Road West, Birkenhead; S. Smith, 19 Old Hall Street, Liverpool, general broker; A. T. Smith, Gedge Street, Liverpool, chemical broker. There shall not be less than three nor more than seven directors, and the first shall be chosen by the subscribers to the memorandnm of association. Qualification, 500l. Remuncration to be determined in general meeting.

DEATHS.

Coles —On May 28, Mr. William Edwin Coles, chemist and druggist, High Street, Leighton Buzzard. Aged 33.

EWART.—On May 18, Mr. David Ewart, chemist and druggist, formerly in business at Tolbooth Wynd, Leith.

HAIGH.—On May 23, Mr. Richard Haigh, chemist and druggist, Victoria Street, Shrewsbury. Aged 76.

HARBURN.—On May 25, Mr. James Harburn, chemist and druggist, Staithes, Yorkshire. Aged 66.

HETHERINGTON.—On May 9, Mr. Thomas Hetherington, chemist and druggist, late of Foochow, China. Aged 37.

Holden,—On May 23, Mr. John Holden, chemist and druggist, St. James' Street, Burnley. Aged 35

Parkes.—On May 19, Mr. John C. Parkes, pharmacentical chemist, Hare Street, Woolwich. Aged 59.

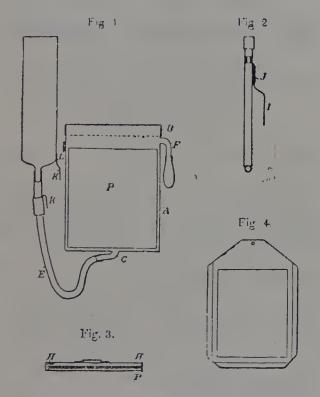
Ross.—On May 30, Mr. Robert Ross, chemist and druggist, High Street, Old Aberdeen.

SALBROMALIDE is a new name for antinervin, a Philadelphian antipyretic. It is said to be a mixture of bromacctanilide and salicylanilide; hence the name.

PHOTOGRAPHIC NOTE.

DEVELOPING WITHOUT A DARK ROOM,

AT a recent mecting of the Liverpool Section of the Society of Chemical Industry Mr. Alexander Watt described an apparatus which he has devised for developing without a dark room. It consists of a metallic case A (fig. 1), only slightly larger than the plate for which it is intended, which can be closed light-tight by means of the lid B. It is furnished with two tubes, one, c, entering at the bottom of the bath, which can be connected by a piece of indiarubber tubing, E, to the funnel D; the other is near the top, just above the level of the plate P. The former serves to introduce the developer into the bath, and the latter, F, allows the air to escape and also acts as an overflow.



The funnel D and the indiarubber tube E are supported by means of the hooks K K, which fit into the eye L. The tubes are so bent that no light can enter the bath. An end view of the bath is shown in fig. 2, in which a movable hook I, fitting into the socket J, serves to fix the bath to any convenient support. A section, fig. 3, shows the plate P, the film side of which is kept from contact with the side of the bath by means of the metallic strips H. When the bath is intended for the development of films or paper prints, it is furnished with a carrier (fig. 4), into which the film or paper is inserted before being put into the bath, and when required for the development of several plates at one time, it is constructed with grooves, as in an ordinary plate box.

structed with grooves, as in an ordinary plate box.

The bath is used as follows:—The dark slide containing the exposed plate and the bath are placed in a changing-bag, into which it is only necessary to insert the hands. The plate is then transferred from the slide to the bath, care being taken to keep the film side towards the back of the bath. After being closed, the bath is withdrawn from the bag into daylight, and fixed vertically to any convenient support by means of the hook. A vessel is placed under the overflow tube, and the inlet tube is attached to the funnel, which after being filled with the developing solution, is raised and lowered several times, to alternately fill and empty the bath, and so ensure the removal of air-bells from the surface of the plate. After standing sufficient time to complete the development, the solution is run off from the bath. The plate is washed by running water through the bath (either by means of the funnel or by attaching the indiarubber tube direct to a water-tap), after which it is

taken out, in daylight, and "fixed" in a covered tray. If it be desired to "fix" entirely in the dark, the operation may be conducted in the same bath, or in a similar one to which the plate has been transferred in the changing-bag. The final washing of the plate may be done either in the bath or in the usual way.

The best developer for use with the dark bath is ferrous oxalate, on account of its property of not producing "fog," even when a plate has been left in it for an hour. It should be made just before use from the following solutions, prepared according to Thomas's formulæ—

Potassium oxalate 300 grms .. 2.2 " Potassium bromide Water to make 1,000 cc. No. 2. Ferrous sulphate 400 grms. Sulphuric acid 3 cc. Water to make 1,000 cc.

To 4 parts of No. 1 add 1 part No. 2, and water to make 8 parts.

When the developer is used at once with Thomas's "Extra Rapid" plates, from 12 to 15 minutes in the bath at about 15° C. is sufficient to give a satisfactory negative, if the exposure has been correct. The time required to obtain a suitable density is found by placing the exposed plate in the bath and adding the amount of developer required to fill the bath, in four equal portions, at intervals of five minutes. Four densities are thus obtained by developing for 5, 10, 15, and 20 minutes respectively, from which observations the time that gives the desired density is selected.

Personalities.

MR. T. MATTHEWS has bought the premises and stock-intrade of the late Mr. Edwin Yearsley, Market Place, Ross, Herefordshire, which he successfully carried on for upwards of fifty years.

MR. E. STOREY, of the firm of Bird & Storey, Pharmaceutical Chemists, 42 Castle Street East, Oxford Street, has been elected a vestryman of the parish of St. Marylebone. He was one of the Conservative candidates.

APOTHEKER K. BRETSOHNEIDER, of Elberfeld, has been appointed manager of the new pharmacy at Dar-es-Salaam, German East Africa, the headquarters of Baron Von Soden, Governor of the Colony. A German pharmacy already exists in Zanzibar, which is now a British possession.

LAST week, Mr. F. W. Palmer, chemist, Ramsey, was entertained to dinner and presented with a handsome black marble-and-bronze clock and a pair of beautiful vases to match, on the occasion of his resigning the postmastership of the town, which he had held for thirty years.

We have been asked to notify that a concert will be given at the lecture hall of Hinde Street Wesleyan Chapel, Manchester Square, on Wednesday next, June 17, at which the chair will be taken by Mr. Wm. Martindale. The object of the concert is to obtain some funds for a family left unprovided for by the sudden death of the father. Mr. J. C. Umney is named among the vocalists, and Mr. S. A. Walton, chemist, 10 New Cavendish Street, who appears on the programme as elocutionist, will supply tickets. We are told that the concert room is to be perfumed in a novel manner.

Tonquinol, the new artificial musk, occurs as a snow-white, crystalline powder with which needle-shaped crystals are interspersed. The odour appears to be due to the presence of a nitro-terpene and nitro-sulpho-xylol. It is soluble in alcohol, water, fats, oils, ether and chloroform. The alcoholic solution (1 in 50), on considerable dilution with water, is very agreeable in odour, and the perfumc is not precipitated. At present tonquinol is sold by the manufacturers at the rate of $1\frac{1}{2}d$. per grain.



Largest Sale in the World

SANITAS OIL," for Inhalations in Lung and Thront Complaints.

KINCZETT'S- MERCURIC BACTERICIDE.

KINBZETT'S PATENT PRESERVED PEROXIDE OF HYDROBEN.

Pamphlets. Particulars, Prices, Showcards, and Bills, on application to THE SANITAS CO., LIM., Bethnal Green, LONDON, E.

SHOW CARDS, 24×17 or 17×12, Free to any address in the United Kingdom



See first page, facing iuside of front cover, first issue of the month, for latest particulars.



W. P. THOMPSON & CO., F.C.S., M.'s I.M.E., &c., 8 Lord Street, Liverpool; 6 Bank Street, MANCHESTER; 63 Long Row, Nottingham; and 323 High Holbern, Lenden, W.O., Chemical and General Patent and Trade Mark Agents.

MANUALS OF INSTRUCTIONS GRATIS.

SCHWEPPE'S TABLE WATERS

51 BERNERS STREET, LONDON, W.





LONDON AND LANCASHIRE FIRE INSURANCE COMPANY.

Head Offices 45 DALE STREET, LIVERPOOL.
74 KING WILLIAM STREET, LONDON.

Annual Income, £702,000. Funds in Hand, £807,000.

Premiums Moderate. Losses settled with promptitude and liberality.

Applications for Agencies specially invited from Chemists and Druggists in both Town and Country Districts.

MUNIFORD'S

(FARRINGDON ROAD, LONDON, E.C.)

CRUSHED LINSEED 18S. cwt. in 56 lb. & 1 cwt. bags, or in 14 & 28 lbs. 19/- cwt.

STARCH POWDER

In 1 cwt. and ½ cwt. bags, at 2b/cwt. Iu 7, 14, and 23 lbs., at 28/cwt.

FULLER'S EARTH.

Finest Levigated, 1 awt. and ½ owt., 16/ awt.; in 7, 14. & 28 lbs., 18/ awt. Fine Levig sted, 1 awt. & ½ owt., 14/ awt.; in 7. 14, & 28 lbs., 16/ awt.

CARRIAGE PAID

To Railway Stations in England, or half to Scotland, Ireland, and Wales, on parcels of a total weight of not less than 1 cwt.

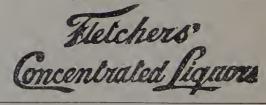


MOTICE.

ROWLAND'S MACASSAR OIL, KALYDOR AND ODONTO.

Any Chemist who publishes a Montbly or Annual List of Prices circulating among the general public will oblige Messrs. A. Rowland & Sons, of 20 Hatton Garden, London, by sending a copy of last issue, and stating price for an advertisement of pace or halfpage on cover. Counter Bills and Dumnies always sent on application.

THE BEST TINCTURES, INFUSIONS, AND SYRUPS ARE THOS: MADE WITH



THE PHARMACY BILL ABANDONED.

THE Pharmacy Acts Amendment Bill now appears in the Parliamentary notices as "dropped." This is the ignominious end, or at least suspension, of a measure which had such a

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

The Chemist and Druggist SUPPLEMENT IN SUPPLEMENT

Businesses Wanted. Businesses for Disposal. Premises to Let. Auction Sales.

SATURDAY, JUNE 13, 1891.

Partnerships.
Situations Vacant.
Situations Wanted.

ADVERTISEMENT'S for this Supplement can be received on FRIDAY MORNING, first post, though it is requested that these may be sent in as early in the week as possible.

EXCHANGE COLUMN ADVERTISEMENTS will appear on page 10 (bottom folio), and must be received not later than THURSDAY AT NOON, to appear in the next issue.

All Advertisements for this Supplement and Exchange Column must be prepaid. Remittances payable to EDWARD HALSE, and crossed Martin's Bank (Limited).

OFFICES: 42 CANNON ST., LONDON, E.C.

This Supplement will be given free to any Chemist and Druggist or Assistant who will call for it at 42 Cannon Street on Friday afternoon, or will be posted on Fridays to any one who sends an addressed postal wrapper.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible apportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—LONDON, W.—wirst-class Dispensing Business, attnate in a high-class locainty; handsome shop and good house; the incomer must be prepared to invest about £1,500, for which full value is offered. Fail particulars on application with business eard or reference in London.

2.—NONDON, W.—wirst-class Dispensing and Retail; returns about £400 yearly; comfortable house, near the sea; price £370. Particulars on application.

9.—YORKSHIRE—Light Retail and Prescribing Business, all cash; returns £710 yearly; net profit over 33 per cent.; handsomey-fitted shop

- 2.—LONDON, N.—Dispension and Retail Business of very good class; established many years; returns about £900; very profitable, chiefly from Dispensing; the slop is handsomely fitted, and situate in a rood business locality; house is very convenient and commodious; price £850.
- 3-LONDON, N.—Dispensing, Prescribing, and Retail; chiefly eash; situate in a very busy locality; returns about £950; the shop is well stocked and convenient; good lease; vendor offers every facility for examination and special terms; price £700.
- 4.—LONDON, E.C.—Retail, Dispensing, and Prescribing, of good class; returns over £1,000; very good profits; weil-fitted lock-up shop; price £800.
- 5.—LONDON, El.—Very nice locality; good middle-class Business; established about 18 years; returns £950 to £1,000 yearly; profits exceptionally good; comfortable house oa long lease; price £850.
- 6.—LONDON, W.—Disposing and Prescribing Business; established many years; returns nearly £900; handsomely-fitted shop, 8-roomed house, good lease; price £700; full investigation invited.
- 7.—LONDON SUBURB, S.E.—Vendor retiring; Business of good class; returns about £1,000; situate in a favorrite suburb; particulars wiff be furnished at an interviow, and special terms are offered to a suit-

- 9.—YORKSHIRE Light Retail and Prescribing Business, all cash; returns £700 yearly; net profit over 33 per cent.; handsomely-fitted shop and good stock; very low rental; price £600; capital opening for
- 10.—SOMERSET.—Rurai district; Dispensing, Prescribing, and Agricultural trade; established many years; returns £650 yearly; capital house and large attractive gardens, stabling, &c., at low reutal; price £550.
- 11.—ESSEX.—Capital business locality; old-established Mixed Busines; returns £1,650 yearly, good profits; large, well-fitted shep and exteosive business premises; large house and very good garden; the business admits of considerable extension; about £1,200 required; liberal arrangements oan be made.
- arrangements can be made.

 12.—SUFFOLK (Partnership).—A partner is required in a Mixed Business, including Wines and Spirits; the connection is a very good one, and can be largely extended; the incomer must be prepared to invest about £700, for which an ample return is offered; references to be exchanged; full particulars on application.

 13.—SUSSEX.—Good-class Business, situate in a favourite town; returns about £700 yearly from good-class Retail and Dispensing; handsome shop and good house; price £480.

 14.—ISLE OF WIGHT.—Select Retail and Dispensing Business; returns between £400 and £425 yearly; all profitable business; the shop is well stocked; altuation prominent; rent low, on lease; price about one year's returns.

Particulars of any of the above will be furnished on application. N.B.-NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION,

Messrs. Orangor & Co. invite communications from COLONIAL and FOREIGN firms where business of a condidential nature requires the especial

SPECIAL NOTICE.—TO PRINCIPALS AND ASSISTANTS.

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LEICESTER, VALUER,

60 St. Stephen's Road.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLYINVESTIGATEO FOR BUYERS, 20 YEARS' EXPERIENCE.

STOCKTAKING UNNECESSAILY.—Stocktaking is niways dreaded by Obemists, and with a competent Valuer is not necessary.

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STOCKS AND FIXTURES BRUGHT FOR CASH.

NORFOLK.—Old-established Retail is good market town; returns £1,100 to £1,200; stock and fixtures at valuation; about £750.

WEST.—Good family Retail, with fittings; agency returning £1,300; large house, garden, &e.; price ahout £800.

YORKS.—Returns £1,600; Country Retail, with Wines, Spirits, Ales, and Stont; premises fully licensed; net profit £500, can be much increased; liness sole cause of sale; price about £1,000; goodwill moderate; stock and fixtures at valuation.

and fixtures at valuation.

LANCASHIRE.—General Retail. with Wines and Spirits; returns £1,100; profits large; reat £35; price £700, or £100 goodwill and valua-

MESSRS. BERDOE & GO.

CHEMISTS' TRANSFER AGENTS & VALUERS,

30 JEWRY. STREET, ALDGATE, E.C. Established 1870.

VALUATIONS and TRANSFERS conducted in any part of the United Kingdom. Twenty years practical experience. Terms, which are strictly moderate, may be bad on application.

NO CHARGE TO PURCHASERS.

NO CHARGE TO PURCHASERS.

LONDON, S.W.—Very desirable locality; first-class Retail and Dispensing Busiaces: returns £1,100; net profit over £450 yearly; bandsome premises, good stock, convealent house; price £1,050; every investigation; good introduction given; opportunity seldom offerlag.

HOME COUNTY.—Important town, 30 miles out; first-class Retail and Dispensing Business, makiag a net profit of £360 yearly, under management; excellent corner business premises; large house; low rent; price £900; most desirable investment.

YORKSHIRE.—Ready-moacy Retail, Dispeasing, and Prescribiag Business; returns £1,100; net profit £400; reut £15; 12-roomed house; large garden; same bands many years; retiring; price £750, or valuation terms arranged.

tion terms arranged.

DERBYSHIRE.—Market town; good-class Retail, Dispensing, and Prescribing Business; nothing heavy or mixed; best position; slight opposition; returns £650; net profit nearly £250; rent £26; 8-roomed house; price £450; investigation courted.

HAMPSHIRE.—Increasing locality; good-class Retail and Dispensing Business; returns about £600 yearly; corner suop, well fitted and stocked; quite nnoppesed; low rent; good bouse; price £300; for sale solely on account of ill-bealth.

OXFORDSHIRE.—Large towa; Retail and Dispensing Business; returns £600; situated in a very commanding main road position; a good opportanity for establishing the eash system; valuation only about £250; no goodwill.

no goodwill.

KENT. -Important business town; Retail, Dispensing, and Prescrioing trade; returns £2,000 at good prices; net profit £600; large shop; good position; low rent, on lease; price £1,100, part can remain; or partaersbip eatertained.

LONDON. 8. E. - Death vacancy; in main road; handsomely fitted double-fronted shop; returns now £400, late owner did £600; 8-roomed bouse; moderate rent, on lease; valuation only required, about £225; no cod will.

Particulars of any of the above sent free on application.

Other Businesses, Town and Country, from £100 to £5,000.

Mesars. Berdoe & Co., 30 Jewry St., Aldgate, London, E.C.

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3s. 6d. for fifty words; 6d. for every 10 words beyond.

LD-ESTABLISHED, in the County of Durham, very cheap. Apply to Mersrs. Joet and Parsons, Newgate Street, Newcastle. A bargaln.

N o reasonable uffer rifused for the Stock and Flatures of Chemist's Business, now carried on at 42n Queen Street, Wulverhampton; must be sold; an exceptional opportunity for cutting man. Apply, Manager as

PRESCRIBING AND DENTISTRY.—Unusual opportunity for Chemist and Dentist; no cutting or putents; profits average 75 per cent.; low price will be accepted for eash; large premises. "Dentist," 230 High Street, Willisden Junetiou.

To be Disposed of, an old-established Light Retail and Presoribing Business in London; returns about £550; very profitable, and capable of considerable improvement; situated in a busy market place, and absolately unopposed. M. P. S., c/o Mr. Robert Smith, Straker Bros., 44 Blahopsgate Street, E.O.

Messrs. CROCKER & CO.

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.

SOMERSET.—Old-established Retail, Dispensing, and Prescribing trade; returns £800; very profitable; price £600; handsome pharmacy

LANCASHIRE .- Good-class Retail and Dispensing; returns £520;

LANCASHIRE.—Good-class Retail and Dispensing; returns £520; price valuation of stock and fixtures.

WEST OF ENGLAND (fashionable health resort).—Oldestablished Retail and Dispensing; returns £1200; price £1,200.

SURREY.—Light Retail and Dispensing; returns £500; price £650; good bouse; handsome pharmacy; agoney pays rent.

NORFOLK.—Good-class Family and Dispensing; returns £850; price £700; long lease at a low rent; good house.

HOME COUNTY.—Light Retail and Dispensing; returns £400; low rent; price £320; large and convenient bouse, with nice garden.

SUSSEX.—Old-established Retail and Dispensing, with good sale of own specialities; returns £400; price £450; good house and garden.

KENT.—Family and Dispensing trade, with Post Offlee; returns over £800; price £600; large bouse and garden.

BUCKS.—Light Retail and Dispensing; very low rent; returns £450; price £30; good house and garden; worth attention.

MIDLANDS.—Retail, Dispensing, and Prescribing; returns £500; price £200. double-fronted handsome pharmacy.

LANCASHIRE.—Good-class General Country Retail and Dispensing Business; in same hands many years; returns £1,300; rent low; price £1,000; open to reasonable offer; worth attention.

EASTERN COUNTIES.—Old-established Country trade; returns £1,000; price, valuation only; large and convenent house; rent £40.

HANTS.—Light Retail and Dispensing; returns £400, and increas-

HANTS.—Light Retail and Dispensing; returos £400, and increasing, large and convenient premises, held on long lease at n very low rental; price £200.

rental: price £200.

LONDON, N. (Main Road).—Good-class Retail and Dispensing; returns £400, and can be doubled with urdinary attention; price £200.

LONDON, S.E.—Retail and Prese ioing trade; nnopposed position returns £500. price £400; rett £40; good house, &c.

LONDON, S.E.—Suburb.—Retail and Dispensing; handsomely-fitted comble-fronted sbop; returns £1,400; reat £40; price £1,100; or a Partaership would be entertained, with a view to present owner retiring.

LONDON, S.—Goot-class Retail and Dispensing trade; returns £500: low reut; price £350; capital po-ition in marketing thoroaghfare.

LONDON, N.—Old-established Retail, Preseribing, and Dispensing; many years in same hands; returns £570; price £500.

NO CHARGE TO PURCHASERS.

VALUATIONS A SPECIALITY, TERMS ON APPLICATION.

BUSINESSES FOR DISPOSAL—Continued.

LONDON SUBURB.—For immediate sale, having purchased large country but incess, n good-class Retail and Prescribing Business; returns are £500; rent £36; net profit £200; 9-roomed house, small garden; no oppositiou; eash price £250. T. J., Office of The OHEMIST AND DRUGGIST, 42 Cannou Street, E.C.

E ASTERN COUNTIES—First-ela's Retail and Family Business; increasing returns; good profits; reason for dispo-al, taking larger concern; every investigation adowed; in noming about £6D1; Post O.II matter ed. Full particulars from II. A., c'o Messa', Hodgkinson, Treaouer & Clarke, 193 Upper Whitecross Street, E.C. No agents.

DAME COUNTY.—First class Ritall and Dispensing Business in best position in a town of 10,001 inhabitants, with slight opposition; tull prices obtained; net profit about £300 per aumam; good bonse, with garden; price £550 or reasonable offer; structst levestigation. "Potas.," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.O.

TO CHEMISTS AND DRUGGISTS — For sale, good Country Business (Notes), with Grovery attached; good house and garden; returns between £500 and £700, relinquishing through in-health; stock and fixtures at valuation; no good will. For intriber particulars apply to Richaro Widduwson, Chemist, Market Street, Bulweli, Nottingham.

OR SALE, consequent upon death, Ohemist and Druggist Business; OR SALE, consequent upon death, Onemso and Druggist Business; sploadid position in busiest thoroughare and centre of large city in West of England; most y Prescribing and General Family Retail, with a good conacction, and easily capable of extension with capital. Apply by letter, to S. N., c/o M.ssrs. Quas. Barker & Sons, 8 Birchin Lane, E.C.

E1,150 -A1 chance for an industrious young man about Business: returns closely approaching £1,50 at full prices; not profits arout £500; no oppositiou wurth noto, reasonable offer not rejected. Address, 'Circumanulient," e/o Harveys, 6 Giltspur Street, and Umney, 50 southwark Street.

FOR Disposal, a thoroughly genuine and old-established Business, situated in the best position in a cathedral city in one of the Western Countles; first class Dispensing, Retail, and Agricultural; returns exceed £800; very good profits; convealent house; moderate reat a immediate possession; every investigation allowed; easy terms to an immediate purchaser. Apply W. T., care of Messrs, Evans, Lescher & Webb, 60 Bartholomew Close, London, E.C.

THE CHEMIKA AND TRACERST SUPPLEMENT

BUSINESSES FOR DISPOSAL—Continued.

BRANCH Business, in a leading West of England seaside town; good position; handsomely fitted; good stock; been neglected; easy, terms, "Chemicus," Office of The Chemist and Druggist, 42 Caunon

GENUINE old established Business, Market Town, South Midlands; good house, premises, and garden, greenhouse, coachhouse, &c.; returns £1,000, good profits; rent £55 un lense; price £1,000; no agents. Apply, with reference, X.Y.Z., Messrs. Evans & Co., 60 Bartholomew Olose,

FOR Disposal, a genuine Chemist's Business in Kent; last year's returns nearly £500; main thoroughfare; corner shop, with private entrance; full particuers to an intending purchaser; price £500. Address, "Spes," care of Mr. McCallum, 53 Faulden Road, West Hackney, Lordon.

£350 Genuine weii-stocked Business, In first-class growing suburb: returns about £500 increasing in response to attention and energy applied; proprietor entering medical, could assist purchaser if desired; no agents. Apply, hy letter, S. Shaugh, Speyer Bros., 7 Lethbury, E.C.

FOR SALE.—Obemist and Druggist Business in thriving manufacturing town, Yorksbire; fittings (Curtis & Co) and stock nearly new good shop, in principal street, held on easy terms; only small capital required; good offening to anyone acoustomed to country trade. Apply, Messes. Longbottom & Sons, Halifax.

DABLINGTON. main thoroughfare, Chemist and Dauggist's Buisness (established 1868); large double-fronted shop, with fixtures complete; small stock; convenient house, cellars, &c.; a capital opening, with no opposition; no reasonable offer refused. For further particulars, apply to "Manager," 12 Blackwellgate.

MIDLAND 3.—Fifty miles from Loadou; markot town; business doing from £10 to £12 weekly, and increasing; last week, £14 15s.; capital house and well situated; investigation courted; no resideat dentist; population within two unites, 10,000; price, stock and fixtures at valuation. "Aqua," St. Stephen's House, Oxford.

ONDON. N.W.-Light Retail and Prescribing Business for immediate disposal, in populous neighbourhood; established 16 years; good opportunity for a branch, or well suited for a beginner; every investigation courted. Apply, personally or by letter, to G. Inaes, 34 Lisson Street, Marylebone Road, N.W.

£120 -A genuine Chemist's Business for immediate disposal in an East-Coast watering-place; unopposed position; nicely-fitted corner slop; rent £19; sverage takings £5 per week, and capable of being considerably increased; a splendid opportunity for a new beginner; season just commencing. Apply, "Mauna," care of Jno. Martiu, jun., Fylingdales, Whitby.

RUG and Drysaltry Business—Two very genuine snburban shops, now worked in conjunction, in Important thoroughfare; total ingoing about £900, which includes stock, fixtures, and goodwill of both, all at valuation; returns £2,051 in 1890; profits under management £350 annually; trade this year shows marked increase. Apply, Frederic Goodeve, Cannon Street, Birmingham.

CENUINE BARGAIN.—To be sold, three valuable Proprietary Tonet Preparations, together with registered Trade Mark, Stock-In-Trade, etc.; no special knuwledge or plant required; can be worked from any address; very large profits on turnover, and capable of unlimited extension; good reasons for disposing; price to immediate purchaser, £70. Address, 217/25, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESS WANTED.

3s.8d. for fifty words; 8d. for every 19 words beyond.

LIGHT Retail and Prescribing Business in the country, South preferred; advertiser has £100 at command; situation with view to succession not objected. Apply, "Tenax," Office of The Chemist and Dauggist, 42 Cannou Street, E.C.

PARTNERSHIP.

3s. 8d. for fifty words; 8d. for every 10 words beyond.

WANTED, a partner or a good pushing Assistant; or will sell very cheap a business in one of the most thriving towns in America (about £400 required), nwner not having sufficient time. Address, Horrocks, Vancouver, B. C., Oanada.

PARTNER required; excellent chance for young man wishing to start in business to acquire part ership in rapidly increasing concern; profits more than half; returns, seemed year, £750, and will shortly be double; every investigation courted, and price as may be agreed upon. Apply, "Alpha," 16 Amberley Grove, Addiscombe, Croydon.

SALE BY AUCTION.

3s. 8d. for fifty words; 8d. for every 10 words beyond.

TO CHEMI; TS.—For SALE by AUCTION, at the Mart, Tokenhouse Yard, Lothbury, E.O., on Thursday, June 25th, at 10'clock precisely, the well-built loug-leasehold Shno and Residence, No. 28 Tulee Hill, situate hi an excellent position in this favourite high-class inetropolitan subarb. There has been a good Chemist's and Druggist's Business carried on therein for many years, and possession will be given on completion of the purchase. The trade fixtures and fittings may be had at a very low valuation. Particulars of Messrs. Billingburst. Wood & Pope. Schicitors, 7 Bucklersbury, E.C.; or of Messrs, Herring, Son & Daw, Auctioneers, 62 Coleman Street, E.C., and Brixton Hill, S.W.

TO LET,

SHOP to Let.—Good opening for Chemist; plate-glass double fronts; good house and garden; last rising neighbourhoud; low rent. Apply, E. Bojes, Woburn Sands, Beds.

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VV. TOD & CO, Limited Drysalters, Perfumers, and Mann-facturing Chemists, City Road, Meibourne, invite tenders for supply of Acids. Tart. and Cit., for forthcoming season. Particulars from H. M. Tod, 10 Idol 1 auc, Great Tower Street.

APPRENTICESHIPS.

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APPRENTICE, in a good Country business, near London; an intelligent, well-concated youth; moderate premium; comfortable home; Nonconformist family. Apply to R. Griffith, Pharmaceutical Chemist,

A PPRENTICE.—In comfortable home in healthy suburb of London, with time for study, and every opportunity of acquiring thorough knowledge of the business. F. S. Dewey, 6 Townshend Road, Regent's Park, N.W.

WANTED an educated gentlemanly youth as Apprentice in a first-class Retail and Dispensing business in the North (in inors); one who has passed the Preliminary preferred. Address, "Yorkshire," 0,0 Messrs. Allen & Hanbucys, Plough Court, Lombard Street, Loudon.

WLES & SON, Pharmacentical Chemists, Great Yarmouth, have a vacancy for a well-ducated youth as Apprentice; premuon required: easy hours; no heavy trade; not opened on sunday; an Improver or Turnover would be treated with. For terms, apply to above.

SITUATIONS OPEN.

3s. 6d. for fifty words; 8d. for every 10 words beyond.

TEMPORARY Assistant, from June 25th to July 4th. Apply, stating terms and reference, Lench, Chemist, Macclesfield.

WANTED, Junior As istant (indoors). Usual particulars to Jones, Chemist, Barry Duck, South Wales.

WANTED, at ouce, an Assistant in a Dispensing business. Apply, McIsaac & Co., Dispensing Chemists, Birmingham.

MMEDIATELY, Assistant, about 23 or 24; also Junior, 21 or 22; personal apparential preferred. Knight, 452 Edgware Road.

TRAVELLERS for first-class Perfumery, Toilet Requisites, and Sandries. 54/6J, Office of The Chemist and Druggist, 42 Caunum Street, E.O.

WANTED, Assistant, indoors, for a Wholesale Drug and Drusaltery business, with occasional travelling. Apply, Cowg.li, Suwerby Bridge, Yorks.

CRUSE & CO. Southsea, have vacancy for Qualified Assistant, about 23 years of uge. Apply, enclosing carts (to be returned), with full particulars.

WANTED, a good active Assistant for the Retail Counter. Reply, with reference and salary required (outdoors), to James Stowart, Chemist, Cheitenbam.

SITUATIONS WANTED-Continued.

JUNIOR (in London); 19; 5 years' experience. George, 11 The Grove, Wandsworth.

OCUM-TENENS for one week; good dispenser. Simpson, 4 Wynne

JUNIOR; tall; aged 22. "Unguent," care of T. D. Marshall, Solicitor, South Shields.

AS JUNIOR; nged 22; 7 years' good experience. R., 3 St. James's Street, King's Lynn.

LOCUM, Trinlty Square, Linndudno; disengaged carly July. "Locum," 54 High Street, Stroud.

LOCUM-TENENS or Mannger; aged 38; abstainer; qualified. "Chemicus," 9 Wellington Street, Strand, W.

CCUM-TENENS; qualified; 50; disengaged; active; single, "Occupier," Lullington Lodge, Harbury, Learnington.

WHOLESALE in any responsible position; first-class experience; age 34; town or country. C., 88 Eland Road, S.W.

JUNIOR Traveller or Dispenser; first-class experience; 7 years whole-sale manufacturing. "Naphthol," 42 Melbourne Street, Leicester.

COUM TENENS (elderly) during absence; loug experienced; gentlemanly address; country. "Ph. Oh.," 39 Powis Square, W.

DISENGAGED; minor qualification; fluent French; age 23; height 5 fee: 7 inches; outdoor. G. Leseelleur, Villot, St. Martins, Jersey.

MANAGER of Branch, or Locum-tenens; qualified; thoroughly rehable; aged 39; excellent references. H., 194 Hnrrow Rond,

M ANAGER, qualified; experienced Tooth-extractor and Prescriber; merried, one in family. Address, "Lapis," 15 Manor Park Road, East-end, Finchley.

AS Junior or Dispenser to Surgeon or Institution; outdoor: minor qualification; age 22; London preferred. W. Roberts, c/o Hughes, Chemist, Gloucester.

ACTIVE Junior; disengaged; medium height; 6½ years' experience; leferences; preliminary; outdoor preferred. "statim," 134 Oldham Road, Manebester.

BILL DISTRIBUTOR wants situation: 25 years in last; knows Luncashire th roughly; references if required. W. Cartwright, 112 Brook Street, Ashton-nuder-Lyne.

BRANCH Manager; disengaged; married, no encumbrance; aged 43; helght 5 ft. 10 in.; unqualided; good general experience. "Hydrarg.' 24 Belmout Road, Uxhridge,

RANCH Manager; varied experie ee; good Prescriber and Tooth Extinctor; married; good references. "June," Office of The Chemist and Druggist, 42 Cannon Street, E.C.

ND'A or Colonies,—Certificated Pharmaceurical Chemist, aged 28, spearing English and German, desires appointment by September, Address, Lewis Erdélyi, Trenesia-Teplicz, Hungary.

A SSIS FANCY in first-class Dispensing establishment; thorough showledge of Continental dispensing; linguist. "Alpha," Office of The Chemist and Dauggist, 42 Cannon street, E.C.

TRAVELLER having a large connection in Ireland, North Wales, raneashire, and Yorkshire among t Chemisis and Surgeons, desires are graement; wood references. Aidress, T. G. Martin, 21 Aston Laue,

A SSISTANT or Surgeon's Dispensor; unqualified; nged 24); height 5 ft, 4 in; 9 years' experience; good Prescriber and Extractor; some time for study; state particulars, salary, and hours. H. L. H., 4 Monkfort Road, Strood, kent.

CENTLEMAN, 35 with wide experience and large first rate councetion (Scotland particularly), desires re-engagement as Traveller an Manager for good Londen wholesale Orng house; highest references. D., Office of The Chemist and Druggist, 42 Canona Street, R.C.

WANTED, engagement as Manager, Lo nun-terens, or Assistant in Douglas, Runsey, or other sensule resort; qualified; experienced; good Prescriber and Tooth-extractor; would purchase a suitable Business, address, 223.5, Office of The Chemist and Dauggist, 42 Cannon Street, E.C.

EXPORT.—Advertiser, with 10 years' experience in London and South America, thorougaly acquainted with Coloniai trade, and able to work up a connection, seeks conagement; Spanish, French, English, and German correspondent; unexceptional references. Reply to L. M. 57, c/o Descon'e, Leadenhall Street, E.C.

MISCELLANEOUS.

Special charges are made for Advertisements under this heading, which can be obtained on application.

WANTED, by Dental Surgeon, Rooms snitable for consulting purposes, turnished or unfurnished, with good first-class Chemist; Now Bond Street neighbourhood preferred. Address, G. D., Bank Chamhers, The Square, Bournemouth.

A LONDON FIRM of Druggists and Chemical Agents are open to act as Agents and Correspondents and to represent manufacturers, and invito offers. By letter, in first instance, to M., 48 Liverpool Street, Walworth, London, S.E.

MECHANICAL DENTISTRY executed for the profession by a Dentist having a staff and all modern appliances at command; in gold, dental alloy, or vulcanite; terms strictly modernte; repairs returned same day as received; lessous given in Operative and Mechanical Dentistry. Address, "Dens," c/o Carter, 12 Mnrina, Ramsgate.

CARAWAY SEEDS, finest Dutch; sublime Olive Oif in pyramid flasks, guaranteed pure; Oamphor, 8 and 4 oz. tablets; Wormwood and Horebound in bales, bunches with flowers on; Irish Moss, in 1 and 5 cwt. bales; Gentian Root, 20 hales uneut, all reads for delivery. Prices on application, and for other Herbs, &c. Prompt shipment to Liverpool in originni packages. Briscoe & Co., Produce Brokers, African Chambers, Liverpool.

NOTICE to Chemists, Oilmen, and others,—The Manchester and District Mineral Water Trade Protection Association hereby give public warning that, through the heavy loss and dangerous practice of putting drugs. &c., into mineral water bott'cs, the above Association will take legal proceedings against any person or persons making such illegal use of its Member's Trade Mark Bottles after this date.

Signed on behalf of the Council,

THOS. CLARKSON, Chairman,
Barlow Street, Manchester.

T. W. LAWSON, Secretary.

PURSUANT to an Order of the Chancery Division of the High Court of Justice, made in the matter of the Estate of Alfred Reginald Fresson, deceased, Fresson r. Fresson and another 1890, F. 1522, the creditors of Alfred Reginald Fresson, late of 30 Queen Street, Burslem, in the County of Stafford, Chemist and Druggist, who died in or about the mouth of December, 1893, are on or before the 10th July, 1891, to send by post prepaid to John Garrett Morten, of the firm of Morten, Cutler, & Co., of 99 Newgate Street, in the City of London, Solicitors for the defendant, Lyzie Fresson, one of the Executors of the deceased, their christian and surnames, addresses and descriptions, the full particulars of their claims, a statement of their accounts, and the nature of the securities (if any) held by them, or in default thereof they will be peremptorily excinded from the benefit of the said order.

Every creditor holding any security is to produce the same before Mr. Justice North, at his chambers, the Royal Courts of Justice, L ndon, on the 24th July, 1831, at 12 o'clock at noon, height the time appointed for adjudication on the claims.

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booming in the trade as surely no proposal ever had before it. This is the sixth of the curriculum Bills which have been drafted for Parliament, and the fourth which has been actually before the Legislature; and this calculation does not include the abortive effort to establish the scheme by means of by-laws.

At the annual meeting of the Pharmaceutical Society the President assured his disciples that if they could once get their Pharmacy Act Amendment Bill on the floor of the House of Commons they could carry it any day by a large majority. We do not know what basis Mr. Carteighe may have had for his confidence, but we do know that there were memhers of Parliament who entertained an opposite opinion. Certainly the champions of the Bill, either in or out of the House, were not frantic in their efforts to test the point. The Bill had a respectable backing, hut Sir Henry Roscoe and Dr. Farquharson showed no disposition to emulate the example of energy set them last year by Mr. Sexton and Mr. Johnston in piloting the Irish Amending Act to the desired haven of the statute-hook.

We have published the names of six members of Parlia. ment who had given notice of opposition to the Bill, and there were others who had given favourable attention to the representations of its opponents. These fully balanced the five names which appeared on the back of the Bill as its supporters.

There were three classes of active antagonists. First, there were the unqualified assistants and branch managers, whose claim was referred to hy Mr. Carteighe at the Pharmaceutical Society's annual meeting. They demanded that a new special register should be opened for them, on which should be placed the names of men recognised in consequence of long service in the trade to be competent to dispense prescriptions and to sell poisons. We readily agree with the President that it is the duty of the Pharmaceutical Society to oppose this pretension; but we have very little doubt that the claim would be allowed by Parliament if it should ever be fairly stated in Committee of either House.

The herhalists, who have a sufficiently strong organisation, were also ready. An influential member of the House, whose name did not appear among those who blocked the Bill, had promised to champion their cause, and might be relied upon to present it effectively. The herbalists demanded a definition of the term "medical prescription," such as should clearly exempt their business, or a clause declaring that the Bill should not interfere with them, or, failing either of these concessions, they would oppose the Bill.

Thirdly, the shop-keeping doctors of Scotland had to be reckoned with. It is well known that in some parts of Scotland, and in Glasgow especially, a large part of the drug-trade is carried on in open shops owned by doctors, bnt frequently—perhaps we might say generally—conducted by nnqualified men. A blow was struck at the sale of poisons in this manner by a prosecution in Glasgow won by the Pharmaceutial Society last year, but it has not been followed up with any vigour. The doctors, however, very rightly saw that the clause in the Bill forbidding anyone but a registered person to compound a medical prescription except under supervision was a serious extension of power, which might be used against them. A paper was read before a full meeting of the Glasgow Southern Medical Society last month by Dr. J. Walls White, of Uddingston, and as a result a committee was appointed with full powers to oppose the Dr. White said, "It is out of the question that medical men can give constant supervision, as of necessity they must make visits." And he objected to yield to the obvious alternative of shutting up the medical shops without a struggle. He quoted with effect some passages from Mr.

Carteighe's Scottish campaign speeches. In one he quoted the President as saying: "The medical practitioners had a perfect organisation, 16,000 strong, and he did not think they could touch them at present. . . . They must proceed gradually, because they could not afford to begin the campaign hy quarelling with 16,000 medical men." In the same speech the President is reported to have told his audience "He had still a few things up his sleeve that those present did not know of, and they would consider him a great fool if he were to go stumping about the country telling them all the little things they were hoping and dreaming for."

It would he ridiculous to he surprised or indignant at these various classes of opposition. Men will naturally and properly fight for the preservation and protection of their livings. What we object to is a Bill purposely drafted in vague language, leaving the possibility of things up the eleeve. There are demands which chemists can with good reason put before Parliament. Some of these were not in the Bill. But to aim at objects not definitely stated, and perhaps not suspected, is not a creditable policy, and is very unlikely to be successful. Dr. White's paper furnishes an argument in support of this position. His intimation of probably concealed intentions gave him the strongest basis for opposition; his direct argument that medical men cannot give that supervision to shops which, in regard to the sale of poisons, the law says they must give unless they employ qualified assistants, was evidently his weakest point. We established beyond all doubt last winter that the Bill did not express the aspirations of the trade, who will therefore hear with equanimity of its collapse, and who would watch with comparative indifference the contest between its supporters and its opponents, if by any chance this should come off in a subsequent session of Parliament.

COUNCIL-MADE LAW.

"THE President, Vice-President, and Honorary Treasurer mnst be elected from those members of Council who are likewise Members of the Pharmaceutical Society." This is a regulation which was drafted by the Council of the Pharmaceutical Society of Ireland, and approved among certain other regulations by the Privy Council on November 29, 1890. It prevents any direct representative from holding either of the offices named. How came that order to be drafted? If, as we presume, it was one of the regulations agreed npon by the Council at their November meeting, under section 12, subsection 1, of the Act of 1890, it was clearly ultra vires. The clause referred to required "the Society" (not the Council) to "make regulations for the election of registered chemists and druggists and registered druggists of the Society under the title of Associate druggists." That provision gives no power to the Society, nor to the Privy Council, to effect an alteration in the methods of appointing the officers of the Society. At the last meeting of the Irish Pharmaceutical Council, Mr. Gibson, one of the druggist representatives, called for the excision of this regulation on the ground of its illegality. Hc pointed out that the Council had endcavoured to get this condition of things established by statute, and that in this they had failed. The House of Lords had declined to adopt their proposal. They had therefore enacted it themselves. And this proceeding they seemed to regard with supreme complacency, though their spokesmen intimated that if the druggist memhers of the Council would behave themselves nicely for a year or so they might be inclined to reconsider their regulation. The most astonishing part of the business is that the druggist section appeared to he promptly satisfied with this patronising promise. Mr. Gibson withdrew his motion "with pleasure." These gentlemen will do well to acquire a little more backbone. There ought to he no time in business meetings for frivolous motions which can be withdrawn "with pleasure." We should expect that when the matter comes to be known hy the Irish Privy Council, the authorities there will themselves require the deletion of a regulation, which we should suppose they sanctioned inadvertently.

THE BRITISH ALKALI INDUSTRY.

THE report for the year 1890 of the Chief Inspector of Alkali Works is by no means a discouraging document, and it gives us an opportunity of treating more fully than we did last week this subsidiary department of British industry and commerce. It would he a mistake to contrast too elosely the figures which Mr. Fletcher gives with those of the Board of Trade; in point of fact they have little relation to each other, Mr. Fletcher's merely showing the field of operations occupied by his staff.

There are 129 alkali works in the United Kingdom, but 1,307 other works are visited by the inspectors. So far as alkali is concerned, what we have to eonsider in the commereial and industrial aspects is the production of salt, alkali, and bleach. The intimate relation of the salt and alkali industries is well known. Mr. Fletcher tells us that, "of the salt produced in the United Kingdom about onethird is exported. Of the remaining two-thirds threefourths are used in the soda industry, leaving only one-fourth to snpply all that is required for domestic use, the salting of provisions, for agricultural, and all other purposes." These figures are approximate, for we find that the production last year-which, hy the way, is regulated to some extent by the price of coal—was 1,764,064 tons; of this 885,079 tons were nsed hy alkali makers, 726,021 tons were exported, and 153,014 tons only were used for all other purposes, which includes what is required in glazing pottery and for similar purposes. The amount of salt employed in alkali manufaethre represents 585,637 tons of 58 p.c. soda ash, and from the Board of Trade statisties we gather that 316,585 tons of this, representing a value of 2,089,298 l., were exported during the year, leaving only 269,052 tons for home consumption. A large proportion of salt never passes the salt-cake stage, heing employed in this form for glass manufacture. Our exports of glass last year amounted to 3,070,456 square feet of sheet glass, and 1,350,238 cwts. of other forms, together valued at 1,065,433l., hut we imported 1,070,786 ewts. valued at 1,277,8401. It has also to he considered that much of our production of alkali is exported in the form of soap, of which last year we sent 496,930 cwts., valued at 1,262,304l., to foreign customers. Bleaching powder, the most valued product of the alkali industry, was also exported to the extent of 86,835 tons of the nominal value of 506,706l., the United States, Germany, Russia, and Belgium taking the hulk of it—the United States alone more than one half.

These figures amply show that our peculiar position in regard to native supplies of salt and coal enables us to produce alkali in such abundance as to supply all home industries and households with cleaning materials, and to export at least twice as much. The United States is our hest customer for alkali, having taken, apart from bleaching materials, 199,245 tons last year, or 30,000 tons more than in 1889, thanks to Mr. McKinley. It is understood that ammonia-soda mainly is represented by this. The British Possessions take 21,900 tons; Russia, 18,375 tons; then Spain and Italy are the next hest enstomers, Germany and France taking very little real alkali—indeed, France and Holland are chiefly responsible for sending to us last year

1,867 tons of alkali. Altogether our export trade in alkali, glass, salt, and soap amounts to 5,500,000*l*. a year. Such is the commercial side of the report.

On the industrial or technical side interest is rivetted by the hattle hetween the old Leblanc process, with all its imperfections, and the ammonia-soda process, with its great advantages and equally great lackings. The hattle is a keen one, but it is no longer hetween Lehlanc and Solvay, since others have come into the field as fully equipped as they and without some of their heavy trimmings. The old process made progress last year, using 602,769 tons of salt, as compared with 584,203 tons in 1889; hnt the ammoniasoda makers used 252,260 tons of salt, as compared with 219,279 tons in 1889. Lehlane makers live on their "bleach," and the others succeed in making fortunes without it. Yet the latter do not abandon the hope of rivalling their opponents in the bleach department, although 1890 has gone and we seem no further forward with the Weldon-Pechiney magnesium oxychloride process. Mr. Fletcher gives workers of that process in this country some pretty compliments about their ability and perseverance; hnt there is no advance to record, only "inconvenience is liable to arise from the discharge of chlorine during the drying proeess," also after the material comes ont of the final roasting furnace, and "the aspirating arrangements have given some tronble." It is, in short, the old story of Nature upsetting Science. Interest for a time must, therefore, centre round what may he called the save-all processes -namely, those which produce soda and chlorine and recover snlphur at the same time. At present the best of these is the process patented by Messrs. Haddock and Leith, which proposes to recover the sulphur from Lehlanc vat waste; hnt instead of combining therewith the mannfacture of ammonia-soda, it aims at simultaneonsly converting salt-cake into earhonate of soda of a strength and purity equal to ammonia-soda hy a wet method of decomposition, and without the use of ammonia. This process is an exceedingly ingenious one, conducted in four stages. The first stage is the manufacture of ealeinm sulphydrate, which is done by passing sulphurretted hydrogen through an emulsion of Lehlanc vat waste. After this is fully eharged and allowed to settle, the clear liquor is mixed with a saturated solution of salt-cake. The result is that the sodium snlphate and the ealcium snlphydrate interact, ealcinm snlphate heing precipitated, and sodinm sulphydrate remaining in solntion. But 4 per cent. of calcium sulphate remains in solution, a rather astonishing amount, and is precipitated as carbonate in the third stage. The fourth and final stage, apart from evaporation, consists in the earhonation of the sodium sulphydrate solution, an operation performed by passing it through a tower into which limekiln gas is forced. Sodinm hiearhonate is formed, three-fourths of it crystallising ont; sulphnretted hydrogen is given off, and is collected and utilised as such in the first stage or is converted into sulphur or sulphnric acid. The mother liquor yields a crop of crystals on evaporation, and the liquor from that is used for neutralisation purposes in the course of the process. It will he seen that this invention is the Lehlane, Solvay, and Chance processes rolled into one. It gives the ehlorine of the first, takes advantage of the carhonating of the second (without the ammonia), and it advances Chance's idea to being not only a waste-recovering, hut an alkali-producing, process. Chance applies earhonic acid to calcium-sulphydrate; Haddoek and Leith apply it to the sodium-salt. At present the process is only on its trial; hut it has advantages over others like it which have failed. Other new processes are also being tried, and the aim of all is to produce salt-cake (therefore chlorine) and alkali, and save snlphnr.

These processes will be watched with the more interest owing to the fact that the Chance-Claus sulphur-recovery process has not heen an unqualified sneess. Inspectors have had more complaints ahout it than anything else during the year. When Mr. Chance first described his invention it seemed complete, and fifteen works adopted it, putting down plant valued at 500,000%. They had not long started working when it was found that the gases from the Claus kiln contained snlphuretted hydrogen and snlphurous acid equal to 10 grains of sulphnr per cuhic foot. This is not only a distinct loss, but, as may be imagined, an intolerable nuisance. Mr. Fletcher explains the difficulty thus:—

"The cause of the tronhle is the incompleteness of the reaction of sulphnretted hydrogen when burnt with a restricted quantity of air. The simple formation of sulphur and water as would be expected from the formula—

$$H_2S + O = S + H_2O$$

does not represent all that takes place; hnt possibly owing to a reflex action between the vapour of sulphur and that of water, such as may he represented hy—

$$2S + H_2O + O = SO_2 + H_2S$$
,

both snlphnretted hydrogen and sulphurous acid are found in the residual gases."

In several works special means have heen adopted for ahating the nuisance, hut generally the plan adopted has heen to erect special furnaces, through which the gases might be passed, with sufficient air to hurn the snlphuretted hydrogen and to allow the sulphurous acid thus formed to pass away through the chimney of the works. This has now heen done. Where no hetter uses for the gases could be devised, these comhustion furnaces have been erected, and now it may be said that all escape of sulphuretted hydrogen has ceased.

But the victory, as Mr. Fletcher confesses, is incomplete; there is still the loss of 10 to 20 per cent. of sulphur, which gets into the atmosphere as stated above. It would he unfair to say, in consequence of this, that the Chance-Claus process is a failure; it has ahated one nuisance, and recovered a large amount of valuable material hitherto lost, while it enforces the dietum that leaders in technical chemistry are never tired of uttering—viz., that the chemist of to day should know as much about engineering as of chemical science.

The only other part of the report which calls for attention is that referring to sulphate of ammonia, 134,257 tons of which were produced in 1890, its value heing 1,611,084. Five-sixths of this comes from gas-works. It is all valuable material which, not so many years ago, gas-managers could not get rid of, and was a nuisance to them. Moreover, owing to the incidence of the Alkali Acts, gas-makers are compelled to recover this sulphuretted hydrogen which is associated with the ammonia in the gas-liquor, so that in many gas-works the sulphuric acid is made which is required for fixing the ammonia. This trinmph again is as much due to engineering as to chemical science.

COMMENTARY.

MEDICAL PRELIMINARY EXAMINATION.—The General Medical Council has agreed upon certain alterations in the preliminary education of medical students which exclude the Preliminary and Minor examinations of the Pharmaceutical Society of Great Britain (pro tanto) and the Preliminary examination of the Pharmaceutical Society of Ireland (pro tanto). The new regulations will not come into force until January 1, 1892, after which date those con-

nected with pharmacy will understand that their pharmaceutical certificates are medically nseless.

RESEARCH LABORATORY PAPERS.—Our protest against communications from the Bloomshury Research Lahoratory heing made to the Chemical Society without proper acknowledgment, appears to have heen appreciated in the proper quarter, for in the June number of the Journal of the Chemical Society the paper hy Messrs. Dunstan and Dymond on "The Action of Alkalis on the Nitro-compounds of the Paraflin Series—Formation of Isoxazoles," has a heading in large capitals (an exceptional thing in the journal) which reads: "Contributions from the Research Laboratory of the Pharmaceutical Society of Great Britain." This is as it ought to be.

UNPARALLELED EXPERIENCE.—A chemist in the South of England is giving up business, and he introduces his successor in the following terms:—

DEAR SIR OR MADAM,-Mr. ———, of London, has purchased the business lately carried on by me.

Mr. ——— has been nearly half a century connected with the medical profession. His experience is almost without a parallel, having been five years apprenticed to the leading medical practice at Deal, Kent; ten years assistant to a leading medical firm at Portman Square, London, W.; and for the last twenty-two years he has had the control of a large dispensary in East London, where his experience included the treatment of about 1,000,195 cases of sickness and surgery, an attendance upon about 8,000 cases of midwifery, and the extraction of 50,000 teeth. His testimonials are of the highest order, and I have pleasure in leaving as my successor one who, I believe, will do his utmost to obtain and hold your esteem and confidence.

Mr. ———— is a member of the Pharmaceutical Society of Great Britain, and will keep a carefully selected stock of drugs and chemicals, and all other articles necessary for the demands of the neighbourhood.

QUININE AND IRON MIXTURES.—The somewhat mysterious gelatinisation which occurs in these mixtures is prohably the result of the formation of quinino-ferric chloride. This is a compound which Dr. J. Kerseh, a German physician, has recently described, and which is made by taking one equivalent of pure quinine (say 324 parts), and dissolving in as much ferrie-chloride solution as represents one equivalent of the iron salt (378 parts). The resulting solution is of a deep red-hrown colour. After exposure to a gentle heat for some time the liquid solidifies to a magma, which may he dried, by a gentle heat and nnder exclusion of light, to a hard dark-hrown mass showing a resinous fracture. This quinino-ferrie chloride is amorphous, friable, hygroscopic, readily soluble in water or alcohol, less so in ether, and has a bitter, astringent taste. The mass remains unchanged if kept in well-closed bottles. The compound is said to be an excellent one, and is given internally in uterine hæmorrhage, profuse menstruation, hæmorrhage of the lungs, and the like. The dose is generally 10 drops of ${f a}$ 10-per-cent. solution every hour to three hours.

EDISON'S LATEST .-- The Wizard of Menlo Park now appeals to the eye as well as the ear. His kinetograph is a machine combining electricity and photography, and is capable of reproducing the gestures and motions of actors as well as their voices. According to Edison's description, the kinetograph is placed on a table in front of the stage. It begins to work as soon as the curtain is raised, recording the motions of the actors at the rate of forty-six impressions per second. This is sufficient to give a continuous picture of The photographic slips are then what is happening. developed and replaced in the machine, a projecting lens is substituted for the photographic one, and the calcium light throws the whole scene on a screen. The apparatns is said to consist of a small hox containing the camera, in which there is a roll of gelatine film three-quarters of an inch wide and of any length desired. The interior of the camera

is arranged in the ordinary way. The gelatine strip is unrolled from one spindle and re-rolled upon another, and there is a delicate arrangement for working the shutter continuously. As to the development of the photographs no information is at present given.

SCARCITY OF ASSISTANTS.—There has never probably been a period since the passing of the Pharmacy Act when assistants were so difficult to get as now. From various parts of the country we have reports to this effect, and it is as true of London as of the provinces. Most of the Westend pharmacics are exceptionally busy at present, and many who would he glad of extra assistance have to get along without it, while chemists in popular snmmer resorts find it not an easy matter to augment their staffs for the husy season. The demand in most cases is for qualified assistants, and when it is considered that less than one-half of those on the register are not in business on their own account, it is not difficult to nnderstand that some masters must be content to do without qualified men if they cannot offer the inducements in regard to hours and remuneration which employers in large towns, especially stores, now offer. It is worth noting that at least one of the largest London estahlishments employing out-door assistants offer qualified men 40s. to 50s. per week, the hours being from 9 A.M. to 7 P.M., and 3 P.M. on Saturdays, without Sunday duty, overtime heing paid at the rate of 10d. and 1s. per hour. This is an exceptional case, hut it is not surprising that this establishment never has difficulty in keeping up the strength of its staff. The general tendency now is to shorten the honrs of assistants, and to give them that leisure for recreation which modern ideas demand, and which is not denied to their friends engaged in other commercial pursuits. Where this principle is not recognised the difficulty of obtaining adequate service becomes the greater as time goes on.

RESEARCHES ON THE MANUFACTURE AND ANALYSES OF VARIOUS KINDS OF TEA.

In a recent hulletin issued from the Imperial College at Tokyo, Komaba, Japan, is a very interesting account of some investigations into the values of various kinds of tea by Professor Y. Kozai, of which we give an abstract.

Since good tea can only he prepared from very young leaves, liberally supplied with manure, there should be some difference in the composition of the leaves of young and of old, and perhaps also of manured and unmanured plants. Researches have shown that very material alterations take place in the tea leaf—particularly in its earlier periods of growth—thus:

a. The percentage of water in the leaves continually decreases from the spring up to the autumn.

b. Crude protein and nitrogen-free extract regularly diminish, while crude fibre and ethereal extract increase proportionally.

c. Theinc diminishes gradually, while tannin increases slightly.

d. Substances soluble in hot water gradually diminish up to a certain period, and then increase slowly.

c. As regards the quantity of ash, there is hut a slight fluctuation throughout the year, hut its components nndergo a remarkable alteration: thus, there are a decided diminution of potash and phosphoric acid, and a considerable enhancement of lime, magnesia, and iron; furthermore, the quantities of soda, manganese, and sulphuric acid increase, while the percentage of silica and chlorine remains nearly constant.

Whether the age of the tea plant may have some influence upon the composition of the leaves is a subject not yet experimented upon, although the opinion that older plants produce hetter leaves prevails among tea-planters. Hence

the practice of preferring—or, rather, selecting—the older plants for the preparation of a superior kind of tea: for instance, dew-drops. It is, however, certain that careful pruning and liberal manuring are necessary to obtain a fair crop of the leaves from the older plants.

Still another factor which exerts an influence upon the composition of tea leaves is the peculiar method of screening the plants from light for a week or two just hefore the time of picking. By this means a peculiar, line aroma is said to he conferred upon the tea, so that it is very easy, according to Japanese tea-drinkers, to tell beforehand whether or not the tea they drink originated from screened plants. It is, à priari, certain that there should he some difference in the composition of the leaves of normally-grown and those of screened plants.

In order to solve the problem, a small plot in a large tea plantation was selected, where a most uniform shooting was observed; a part of the plot was covered with wooden frames, so that the plants within were in complete darkness, while the other part was freely exposed to the light. In this state the plants were kept for three weeks, after which time the leaves in hoth parts were picked, when the leaves of the screened plants were found to have heen completely bleached. A partial analysis of these two specimens of leaves gave the following figures (per cent. of dry matter).

		Grown in darkness	Grown in light
Theine	 	4-532	 3.784
Total nitrogen	 	7.835	 6.945
Theine nitrogen	 	1-311	 1.094

A special trial showed that there was no practical difference in the amount of tannin contained in the tea leaves, whether etiolated or green. It seems, therefore, that the chief difference in the composition of these two specimens of leaves lies in the quantities of theine contained. This difference is, however, not due to any new production of the said alkaloid in the darkened plants, but is simply cansed by the formation of various organic substances, such as fibre, &c., in the leaves normally grown, and hy the destruction of nitrogen-free matters hy the continuous respiration in the shaded plants. It is concluded that the tea originating from darkened plants acts more strongly upon the human frame than that from the normal plants.

A large quantity of young tea leaves was next carefully collected from a part of a large tea plantation where the most uniform shooting was observed. The leaves were thoroughly mixed together and treated as follows:

500 grs. were immediately dried at 85° C.
 1,500 grs. were made into green tea.

3. 1,500 grs. were manufactured into hlack tea.

The following table gives the percentage composition of the dry substance of these three specimens.

_		Original Leaves	Green Tea	Black Tea
Crude protein	••	37.33	37.43	38.90
Crude fibre		10:44	10.06	10.07
Ethereal extract		6-49	5.52	5.82
Other nitrogen-free extract		27-86	31.43	35:39
Ash		4.97	4.92	4-93
Theine	••	3.30	3.20	3.30
Tannin		12:91	10:64	4.59
Soluble in hot water		50 97	53 74	47 23
Total nitrogen		5.97	5 97	6.22
Albuminoid nitrogen		4.11	3.54	4.11
Theine nitrogen		0.96	0.93	0.95
Amido nitrogen		0.91	1.13	1 16

From this it will be seen that the loss of othereal extract is somewhat remarkable owing to a conversion of a part of the tannin into a form insoluble in ether; as a consequence, nitrogen-free extract shows a remarkable increase. The fact that the loss of ethereal extract in black tea is less than in the green indicates the formation of organic acids and other components soluble in ether during the fermentation of the leaves. Ash, too, suffers in both cases a slight loss, owing to the mechanical loss of the sap in which it is partly dissolved. The trifling loss of theine may also be attributed to the same source of loss rather than to its sublimation during firing. The destruction chiefly concerns tannin, this happen-

ing chiefly during the process of rolling and drying; and, in the case of black tea, fermentation is the most energetic agent for the destruction of tannin. It is, indeed, true that it is very prone to alterations, since even during the mere drying of tea leaves in the sun a slight but appreciable quantity of tannin is destroyed. The diminution of extractive matter in black tea is most probably owing to the conversion of large quantities of soluble tannin into insoluble phlobaphene, and also the decomposition of organic matters by the organised ferments during the fermentation of leaves, while in the case of green tea, though a fraction of tannin is decomposed, it will not suffer so tar-reaching a change as in that of black tea, and the decomposition-products thus formed may be soluble in water.

From the foregoing it is evident that black tea suffers more material alterations during preparation than green, since in the former the leaves are subjected to fermentation, while the manufacture of the latter consists entirely of mere

mechanical manipulations.

Export tea is always refired in the go-downs of the exporter. This process is resorted to in order to drive out the excessive moistnre from the tea and to destroy the germs which, particularly in the presence of much moisture, would exercise an injurious action upon tea during a long voyage. Ordinary tea contains generally 10 to 11 per cent. of moisture, which is reduced to 3 to 4 per cent. by refiring; and, as this process is conducted at a high temperature, there should be some alteration in the composition of the tea. An investigation showed that the refiring process does not deteriorate the quality of tea, as was supposed by many, but, on the contrary, it increases the fine aroma and diminishes the astringency, while a slight loss of theine is of no practical moment. It is, however, during the process of refiring that the shameful practice of facing tea is performed. Both black and green teas are thus generally artificially coloured or faced. But, owing to the minute quantity of the admixture used, some regard it as an admissible, or even as a legitimate, practice, indeed, facing, as generally conducted, is of no great consequence to public health—but this caunot be taken as the ground for declaring the practice legitimate or even admissible.

With regard to the preparation of green tea, different methods are adopted for different classes of tea. The prin-ciple should, however, be to extract the largest possible quantity of theine and a moderate amount of tannin without dissipating much aroma. Now, this object cannot be attained by boiling tea or by brewing it with cold water, but by subjecting it to the action of water of a certain temperature for a certain space of time, the latter two points being determined by the nature of the tea. The method employed in Japan for making tea of an extra fine quality—viz. "tencha"—is to grind the leaves to powder, which is drunk with the infusion. The second method, used only for a superior tea, is to digest the leaves for about two minutes with warm water at a temperature of 50 to 60° C. The third one, for a medium tea, is to expose the leaves to the action of boiling water for about one minute. The last, which is used for making an inferior tea, is to boil the leaves with water. These methods of making tea are quite rational, since the finer the tea the higher is its solubility. In connection with this, it is interesting to know that Prof. Eder determined what and how much of the constituents of Chinese tea are solnble in water, and the results show that the three active constituents of tea—theine, tannin, and volatile oil—are completely dissolved by water, whilst only 42.5 per cent. of ash goes into solution, amongst the ingredients of which potash and phosphoric acid predominate.

The following table gives the percentage composition of a medium class of Japanese tea:—

In 100 Parts of Dry Substance :-

Crude protein				 26.87
" fibre				 10.89
Ethereal extract				 15:34
Other nltrogen-free	extra	ct		 22.92
Ash			• •	 6.23
Theine				 2.03
Tannin				 17.65
Soluble la hot water	C ++			 33 89
Tetal nltrogen	• •			 4.30
Non albuminous nit	rogen	• •	• •	 0.96

Comparing these figures with those of the best-quality tea, we find a decided deficiency of crude protein in the organic substance, and a consequent less solubility of the tea, with a corresponding increase in the amount of ethereal and nitrogen-free extract, and an augmented proportion of ash.

Practical Notes and Formula.

PERFUMED NAPHTHALIN-CAMPHOR.

THIS is used as a moth-preventive. According to Dieterich, its composition is as follows:—

Naphthalln		• •			 9 oz.
Camphor					 3 ,.
Coumarin					 3 grains
Nerolin	• •		• •	• •	 2 ,,
Nitrobenzol					 15 drops

Melt the solids by a gentle heat, and add the perfames. While liquid pour into suitable moulds.

LASSAR'S HAIR POMADE.

				Parts
Pilocarpine				2
Qu'nine hydrochlorate	• •	• •		4
Sulphur, precipitated			• •	10
Balsam of Peru	• •			20
Cx marrow, to make				100

BRONZING FLUID.

Red anilinc .		 	 	EO grs.
Violet aniline		 • •	 	50 ,,
Alcohol	• •	 	 	2 oz.
Benzoic acid		 	 	50 grs.

Dissolve the aniline in the alcohol, in a bottle, by the aid of water-bath, add the benzoic acid, boil in the water-bath 5 or 10 minutes, until the greenish colour of the liquid has changed to a light brownish bronze. This is applied to leather, metal, wood, or other surfaces.

Western Druggist.

DRESSING FOR TAN SHOES.

]	Parts
Bees'-wax		 	 		1
Oil of turne	ntine	 	 		4

BOTTLE-WAX.

THE following recipe is recommended by Scheirer:-

			Part
Burgundy pitch	 	 	50
Turpentine	 	 	25
Colophony	 	 	100

Heat the pitch until all the water is driven off, then add the turpentine and colophony, and when the whole is liquid add a mixture of the following in fine powder:—

5	TA CTE	TDED	DV	Pow	A DE			
Mix thoroughly.								
Armenian	bole			• •	• •	• •	50	
Carbonate	of mag	nesla		• •	• •		5	
Chalk		• •		••	• •	• •	50	

White wax ...

Melt the last three ingredients on a water-bath and diges the strawberries in the mixture for at least an hour, at a heat which just keeps the mixture melted. Then heat t 100° C. to drive off moisture; add a sufficiency of alkanin to colour (or the almond oil may be coloured with alkanet root); strain, and perfume with 10 drops of otto of rose.

[&]quot;A NEW DIEHL.—Rice as reporter of pharmacy." We give the *Druggists' Circular* credit for this. Mr. Louis Diehl was editor of the American Pharmaceutical Association's proceedings. Dr. Rice has succeeded him.

BRITISH AND FOREIGN CONSULS' REPORTS.

ECUADOR.

The exports of cinchona bark from Guayaquil Drug in 1889 wero 1,172 quintals, value 3,516*l.*, and 2,396 quintals, value 7,188*l.*, in 1890. Of con-Exports. durango 445 quintals, worth 445l., wero exported in 1890.

There is no change to report in connection with The Mer-British trade at Havre, nor, with the prospect of a higher tariff on all manufactured articles, chandisc Marks Act. is there any chance of England doing a larger business after 1891. The Mcrchandise Marks Act continues to be applied with severity by the English customs to goods sent to England in transit for foreign countries, especially with those going to the United States, and Britain is accused of wanting to monopolise the English language. Among other cases brought forward is one of 67 casks of earthenware tiles, manufactured at Creil, for a firm at New York, and bearing the words, burnt in, "Universal Wall Tiles Company." They were sent to Southampton for transshipment by one of the National Line steamers, and were stopped by the customs, who imposed a fine of 10l., and required the removal of the words-which was impossible-before releasing the goods. Finally, the casks were allowed to be forwarded and the fine was remitted, but permission for future transshipments of the same kind was refused. The result is that the goods, instead of heing sent in British, are carried in French and German, vessels.

GERMANY.

Two years ago, the Hohenlohe preserve-factory Preserves. was inaugurated in the town of Gerabronn. At this factory, not only are soups made, but, also, vegetables are dried according to the most recent scientific recipes, whereby the watery contents are evaporated and the characteristic flavour of the vegetables developed rather than deteriorated.

A new artificial building material, known as A New "xyolithe," which is said to possess valuable Building qualities, has been introduced by a firm in the Material. mixture of sawdust and certain chemicals. It is formed into plates under a pressure of 2,500,000 kilogrammes per square metre. The plates are 1 metre square and from 6 to 25 millimetres thick. It is said to be practically fireproof. A 7-centimetre cube of the material was exposed to the action of a coal fire in the heating-chamber of the Royal Saxon experiment-station for five hours without taking fire or the internal structure being impaired, though it became red-hot. A valuable feature of the new building material is that it is exceedingly light. A number of houses of this material have been erected on the West Coast of Africa.

Although the fact of the customs duties in British v. Greccc being levied by weight, and not ad Foreign valorem, has a tendency to increase the consumption of the better class of merchandise (as the duty on a high-priced article is not such a large percentage as on a lower), still the enormous dutics foster the sale of the lower and cheaper priced qualities. In fact, the average Greek buyer looks first to price, and only secondly, if at all, to quality; consequently British merchandise in many cases is run very hard, and often beaten, by the German and Austrian. These countries adapt themselves more to the tastc and fancy of the buyer, and produce the article he wants, rather than to endeavour, as is often the case with the English manufacturers, to force him to consame the article exactly as they produce it.

Morocco.

The quantity exported from Tangier, Tetuan, Beeswax. Casa Blanca, Mazagan, Saffi, and Mogador in 1889-90 amounted to \$705,845.

The exports of olive oil from Morocco in 1889-90 show a large increase over those of 1888-90. In the latter year 1,946 tons were exported (to

the value of \$281,460) to England and France, and \$1,500 worth went to Spain.

Acacia Gums. The principal gums shipped from Morocco in Acacia Gums. 1889-90 were brown gum, Scnegal gum, and sandarach. The joint value of all these was only \$48,175, the roads leading to the sea ports from the places of production being unsafe for conducting goods.

Orris Root. The quantities shipped of this article are exceedingly small at present, though formerly largo quantities were gathered for shipment abroad. This is because the present tariff of duties on produce which is brought to the sea-ports so hampers all the low-priced articles as to render speculation for shipment almost impracticable. Up to a few years ago orris could be bought at about \$2.50 f.o.b., but lately, owing to the additional taxes and duties, it costs nearly twice as much. The same reasons account for the reduced export of citrons, esparto, euphorbium, orchella, horns, peas, rose leaves, sesame, and walnuts.

The following figures show the trade between Trade with Italy and the United Kingdom in pharmaceu-U.K.tical articles during the last two years.

Imports.		1890	1889
Acids Potash and caustic soda Alkaloids Oxides Carbonates Chlorides Nitrates Sulphates Other chemicals Bark Gums and resins Soap	cwt.	8,640 136,016 3,726 17,344 59,766 76,482 40,554 258,442 25,698 9,696 21,444 9,514	6,130 134,908 2,992 19,310 92,770 71,240 20,744 126,910 25,933 9,382 29,018 8,842
Exports.		1890	1889
Olive oil Orange essences	cwt. lbs. cwt. lbs. cwt. '' '' ''	131,234 229,764 34,050 5,430 101,782 42,386 12,884 19,018	215,156 249,196 26,694 8,450 88.086 42.952 9,810 25,656

Turning to the export of olive oil, the small Olive Oil. amount lately sent out of the country is principally due to the deficient harvests of 1889-90, as the export to France varied but little in the last two years. Olive oil entering France from Italy is now subject to a differential duty of 15f. per quintal; but, taking the average cost of production at 100f., and at 140f. for the finest qualities, such a duty, although nearly quadrnpling that imposed under the general tariff, can scarcely be considered prohibitive, as is the case with the duty on wine.

The export of olive oil to France, which in 1886 touched 30 per cent. of the whole amount exported, diminished in 1890 to 23 per cent.

The finer oils made in Liguria and Lncca still maintain their superiority, and, considering how much more extensively the clive is now cultivated in Turkey, Greece, the Ionian Islands, Tunis, &c., Italy may be fairly satisfied with her export—in good years averaging some 600,000 quintals.

TURKEY IN ASIA.

In ordinary seasons the digging for liquorice-Liquorice. root in Asia Minor commences in the middle of October, but in 1890 it was found impossible to begin so early, owing to the badness of the soil in tho plains of Sokia and Nazli; lack of water, moreover, rendered the extraction of the juice still more difficult at first. A final impediment to the work consisted in the monopolisation of the root supply, as well as the manufacture of extract, into the hands of one single firm, who lately have declined to sell any root whatever, and demanded high prices for the extract. The finest quality of the latter is marked RX, the next best VB, and the third quality VG.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net eash prices actually paid for large quantities in bulk. In many eases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, eausing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality $m{i}_{\mathcal{S}}$

42 CANNON STREET, June 11.

A NOTHER quiet week has to be recorded in the drug and A chemical markets, and there are comparatively few alterations calling for any comment. In drugs there has been a more or less distinct advance in ipecacuanha, Jamaica honey and beeswax, American oil of peppermint, fine cardamoms, and ergot of rye. On the other hand, there has been a falling off, in the value of raw camphor, gum benzoin, jalap, musk, rhubarb and vanilla. In the department of chemicals the alterations are very few. Tartaric acid, refined camphor, cream of tartar and quinine have declined in value. Lower figures must also be recorded in soda crystals, raw antimony, shellac, Cochin and Jamaica gingers, tamarinds and pepper.

NEPAUL ACONITE ROOT .-- At to-day's auctions a parcel of 77 bags aconite root from Nepaul was offered. root (from Aconitum ferox) was formerly a well-known article upon our markets, but for about twenty years none has been imported, although the Eastern Himalayas and the South-Western Provinces of China are well known to be in a position to furnish large quantities of this and other medicinal roots if the trade should prove a remunerative one. The alkaloid of the Nepaul root is much more powerful in its action than that of the root of A. Napellus; and the operatives who were employed in grinding the root when it was still a market article suffered severe discomfort. The principal use of the Nepaul root is in the manufacture of liniment. The root is much bolder and heavier than other aconites, and much darker in colour.

THE GERMAN ALKALI INDUSTRY. - The managing director of the German alkali works, "Rhenania," in an article in a recent German chemical journal, gives an interesting account of the German alkali industry since 1873. In that year the duties on soda salts were considerably reduced, and immediately the prosperity of the German alkali industry began to decline. This decay continued until 1879, when the tariff was revised in a protective sense. The effects of the increased duties made themselves felt almost at once. In 1878 the German soda production amounted to about 42,500 tons, while about 27,500 tons were imported from abroad. Since 1878, however, the total production has risen to 195,000 tons, of which 28,450 were exported. Germany now exports more than she imports of all the principal soda salts, except bicarbonate of soda. In 1884, five years after the adoption of protective legislation, soda ash was the first article to show an excess of exports over imports; soda crystals followed in 1886, and caustic soda in 1890.

DRUGS FROM GERMAN NEW GUINEA.—The German part of the island of New Guinea, or "Kaiser Wilhelmsland," the Germans call it, yields certain drugs for which an outlet is likely to be sought upon the European markets before long-several of its medicinal products, in fact, havo already been introduced into commerce in this country and on the Continent. The long nutmegs obtained from the "Myristica argentea Warb," and locally known as "pala

Papua," are the usual currency of certain parts of the country, and form, along with Massoi bark, the staple goods used by the natives in their barter with white traders. root of Derris elliptica, Benth, is used as fish-poison, while Euphorbia pilulifera is a common weed which occurs as plentifully as it does throughout other parts of Polynesia and Australia. Although the natives know the tobaccoplant well, and were already cultivating it to some small extent before the arrival of the white man, yet, singularly enough, they give the name of "tabac" to the fruit of Carica Papaya, a small-podded variety of capsicum longum occurring wild. Anodendron Aambe, Warb, is likely to become one of the most valuable products of German Polynesia. It is a new variety of rubber-yielding climber, which occurs largely in the New Lauenburg archipelago, where its hard, polished fibres are much used by the natives. The capsules are from four to five inches long, slowly tapering towards the end, blackish externally and straw-coloured internally. The seeds are dark brown, elliptical in shape, flat, usually concave, broadest in the centre, with a flat base and with hooked point, from which springs a tuft of silky hair about two inches in length. Both capsules and fruit closely resemble those of the strophanthus.

THE NEW FRENCH TARIFF ON SOAPS .- Common and toilet soaps are among the articles upon which the customs commission of the French Chamber of Deputies proposes to increase the duties very considerably. At present common soaps pay 6f. per 100 kilos. It is proposed to increase this tax to 13f. for the minimum, and 17f. for the general tariff. The minimum tariff on perfumery soaps is to be raised from 8f. to 20f., and the general tariff from 12f. to 26f. The commission justify their recommendations upon the ground that the internal taxes upon many of the ingredients used in soapmaking have increased considerably since the fixing of the last tariff. Transparent soaps are to be placed in a separate category and taxed at 60f. to 70f. per 100 kilos., because, the commission argues, it is impossible to ascertain by chemical means whether alcohol has or has not been used in their manufacture, while foreign manufacturers, usually by simply declaring that no alcohol has been used, contrive to pass them at the ordinary duty upon common soaps. On the other hand, if alcohol has been used, then the foreign alcoholic transparent soap has an enormous advantage over the home made, as the French manufacturer pays an excise of 1.56f. per litre on alcohols, equal to from 47f. to 156f. per 100 kilos, of soap, upon which no drawback is allowed.

THE SPANISH DRUG-TRADE.—The declared value of the imports of drugs and chemical products into Spain during the first four months of 1891 was 19,194,032 ptas., against 19,039,215 ptas. and 15,095,080 ptas. respectively in the corresponding periods of 1890 and 1889. The exports of some of the principal Spanish products of pharmaceutical interest have been as follows :-

	January-April				
_	1889	1890	1891		
Quicksilver Liquerice, in pipe paste Cream of tartar Anise Olive oil Saffren	Kilos, 1,266,745 637,361 162,082 151,571 212,306 12.210.094 9,839	Kilor. 659 347 625,754 278,102 129,322 205,576 5,696,487 12,157	Kiles. 1,206,025 547,371 249,045 180,053 249,976 4,543,187 14,930		

SERVIAN PETROLEUM.-The existence of petroleum deposits in Servia has long been known, and a company, to be called the Servian Oil Syndicate (Limited) is now being floated in London with a capital of 75,000%, to work them. The concessions owned by the concern cover shale deposits at Kralicvats and Now Kralievats, which are claimed to be practically inexhaustible, and to yield a mineral of exceptionally valuable quality. Both these coal scams have already been worked for some years past. The output, it is said, can

be raised within a few mouths to 100 tons a day, and to considerably more as the workings progress. The shale seams are sufficiently opened out to admit of a supply of 200 tons per day by the time the works are completed. The coal is expected to serve not only as a cheap fuel for the supply of the oil works, but a profitable and growing trade is anticipated for it. There is also a good market in Servia for hriquettes, which can he made from the small coal and screeuings. This Alexinatz shale in all its properties very closely resembles Scotch shale. It is, however, much richer than the latter (the yield in crude oil being about 50 per cent. more than from the Scotch material), and has for this reasou, and hecause of its higher percentage of paraffin wax contained in the crude oil, now heen pronounced superior to the Scotch shale hy Scotch shale experts, who have been cugaged in the chemical and practical investigation of the subject. The Servian Government has agreed to exempt fuel oils and gas oils from the royalty tax. The Syndicate hope that they will thus he enabled to supply oil for gasmaking at rates which will give oil gas in Servia a great advantage in cost over coal gas. No town in Servia is as yet lighted with gas. The cost of the plant requisite for oil gas works, as compared with ceal gas works, is ahout one-sixth.

BRITISH-AUSTRALASIAN TRADE.—In an address on inter-British trade, read at the Royal Colonial Iustitute recently Colonel Howard Vincent, M.P., thus reviewed the trade connections existing hetween this ceuutry and the Colonies of Australasia: - The total trade of Australasia is reckoned at 122,800,000l, or 33l. 9s. 9d. per iuhabitant—nearly double that at home. Of the external trade hy far the larger portion is carried on with the Empire, viz., 63,000,000l. out of a total of 74,000,000l. Of this, the trade with the mother country amounts to nearly 59,000,000%, the imports heing only 1,000,000l. in excess of the exports, as against 25,500,000l. in 1861. Australasian imports from our commercial rivals have doubled since 1861, those of Germany having increased ten times, and of France four times, while the direct exports to foreign countries have increased sixfold. This is well illustrated by the exports of wool direct to Contineutal ports, which have increased from 172,000%. in 1881 to 1,556,000% in 1888. In 1888 there were 18,611 vessels, of 4,500,000 tous hurdeu, entered and cleared at Australasian ports, compared to 268 vessels, of 147,000 tous, 1888 there were 18,611 vessels, of 4,500,000 tous hurden. iu 1822—a daily increase of 40,038 tons. The inter-colonial trade of Australasia is estimated at 49,000,0002., compared to 16,000 0002. tweuty-seven years hefore. Of the total Australasiau National Debt, mainly to the United Kingdom, of 170,000,000*l*., nearly 100,000,000*l*. has been spent upon railways, 13,000,000*l*. upon water-supply, 5,500,000*l*. upon immigration, and 48,000,000*l*. upon other services. Although the debt is large compared to the population, its security would appear to he unimpeachable, cousidering that the assets of the hanks in Australasia are 155,000,000%, or 45,000,0001 in excess of their liabilities, while the public income and private estate per head of the population are far in excess of any other country, and the national wealth is computed at a thonsaud millions. Wool, the main article of export, produces about 20,000,000% a year, and of this an enormous proportion comes to the mother country. It is calculated that 373,000,000% is invested in Australasian pastoral properties, and that the annual income amounts to 35,000,000l.

THE BROMINE COMPACT.—About two years ago, subsequent to an attempt ou the part of the American hromine trade to introduce their goods on the European market, an understanding was established hetween the Continental and American hromide syndicates, wherehy each party agreed not to interfere with the markets of the other, and since then things have gone smoothly enough. During the last few days, however, rumours have been current of an impending change in the market for bromine and its products. It is hinted that some of the heads of the American syndicate, having realised the precarious position of their industry, have quietly sold their interest to less-knowing or more hazardons capitalists, whose entrance upon the scene has heen marked by an attempt to sound Europeau agents upon the possibility of recommencing hromine consignments

to Europe, and that the American convention is, to all intents and purposes, morihund. Anxious to hear something more definite about these rumours, our representative sought out Mr. Zimmerman, the agent for the German syndicate. That geutleman told us that there was no prohahility that the American producers would ever again attempt to interfere seriously with the European markets, as their previous attempts in this direction had taught them that such interference would he fatal to the American hromine industry as a whole. The Stassfurt bromine producers are able, if necessary, to sell their produce for less than half the actual cost of the American hromine, and, as a matter of fact, two years ago, about teu tons of German bromide of potassium were consigned to New York, and sold there at 1s. per lh. duty paid, meaning 9d. per lb. nct. This was a prelimiuary act of retaliation; hut, had it heen necessary, the Germans would have been prepared to supply the whole of the American requirements at that rate, and loss. But that was not necessary. The chief representatives of the American interest came over to London at once, and appealed for an arrangement which would permit the American makers to continue working, and terms of peace were granted by the Germans to their American frieuds. But should the latter have forgotten their lesson, they will have to learn it again, and they would prohably find that the German syndicate would not be so lenient now, as it has been formerly, and the renewal of the compact on the old lines would be extremely unlikely.

OUR FOREIGN TRADE IN MAY.—The Board of Trade returns for May have given a rude check to the almost uninterrupted tale of prosperity of the last two years. As compared with May, 1890 (the Easter holidays having occurred in hoth months), there is an increase in our imports from 33,341,000l. to 34,377,698l., or ahout 3 per cent.; hut against this must be placed a decrease in exports of British goods from 22,940,779l. to 19,744,473l., or ahout 14 per cent., and in foreign produce from 6,476,915l. to 5,447,331l., or ahout 16 per cent. In the exports the decline is largest in textiles, but all departments show a falling off, that of chemicals and medicinal preparations alone from 828,279l. to 742,054l. Our imports of chemicals and dyestuffs stand at 678,759l. in May, 1891, against 649,493l in May, 1890; those of oils at 556,9421. and 460,9571. respectively. Our exports of alkali and hleaching-materials again show an increase in value, and the decline is made up entirely of medicines and drugs proper. The following figures refer to the imports and exports of some of the principal drugs and drysalteries :-

	Imports			Exports			
u	1831	1890	1889	1891	1890	1889	
Cinchona Quicksilver Gum arabic Shellacand sticklac	ewts. 8 801 1bs. 547.000 ewts. 4.879 8,038	ewts. 8,830 10s. 934,631 ewts. 6,059 9,212	ewts. 11.244 1bs. 139,252 ewts. 5,880 6,758	ewts. 10,967 1bs. 381,496 cwts. 5,828 9,816	ewts. 12,250 1bs. 562,360 ewts. 4,319 6,984	cwts. 10,420 1bs, 472,420 cwts. 3,197 3,901	

ACID (CITRIC).—The market is in a stagnant condition, with sellers at 1s. 8d. per lh., but no huyers at that figure. Juice is quoted at 25l. from Sicily. The following figures show the imports of concentrated juices into this country:—

	1888	1889	1890	1891
In May First five months	Pipes	Pipes	Pipes	Pipes
	334	466	328	597
	2,583	3,157	2,854	1,236

ACID (TARTARIC).—Quiet, and slightly easier since last week, at 1s. 2d. to 1s. $2\frac{1}{2}d$., according to brand.

Aconite.—Thirty hags small Japanese were bought in at 25s. per cwt., and offer of 18s. being refused; 77 one-cwt. bags hold Nepaul aconite, some of them damaged, were bought in without mention of price.

ALOES.—Cape aloes are firmly held, but the market is dull. Of 52 packages offered at auction, 14 sold at 30s. per cwt. for bright livery Natal, and from 15s. to 13s. for common drossy and very stony Cape. A pareel of fine hepatic Natal aloes is in the market, but the owner is said to require 50s. for it, which at present precludes business. For fine white Cape aloes, offers of 21s. to 22s. per cwt. were refused. Of Curação aloes the supply was very moderate, 176 packages being shown, of which 143 sold at very low prices—11s. 6d. to 15s. for dark to fair Capey, and down to 6s. for very common frothy Curaçãos. Of East Indian aloes there was a rather large supply, but the quality of most lots was unusually low: 10 packages Zanzibars (viâ Aden) fair colour, but very soft, in skins, sold without reserve—67s. for good quality, down to 45s. for fair, mixed with leaves and skin. Fifteen kegs black Mocha aloes, from Bombay, were bought in; and so was a parcel of 7 cases, in skins, of black rubbish, for which, even at 10s. per cwt., there was no response.

AMBERGRIS.—Two tins of fine ambergris, about $\frac{2}{3}$ pale and $\frac{1}{3}$ dark in colour, so-called "soapy" flavour, were shown to-day, and bought in at 180s. per oz.

ANISE.—Of genuine star-anise 42 cases, all rather broken and partly damaged, were offered, and bought in at 100s. per cwt., bids of 92s. 6d. per cwt. being refused.

ANNATTO.—Dull of sale. For 42 bags West Indian seeds, of good bright colonr, $2\frac{1}{4}d$ per 1b. was paid, while 10 packages very common and almost colourless seed from Ceylon sold at $\frac{1}{4}d$. to 1d. per 1b.

ANTIMONY.—Declining in price. Twenty cases good crude Japanese antimony sold to-day at 30*l*. per ton, without reserve. Antimonial preparations will follow the decline.

ARAROBA.—Eighteen cases, forming part of a parcel which has been upon the market for some time, were again offered to day and bought in at 2s. 3d. per lb. for fair quality. The article moves off slowly.

ARECA NUT.—Five bags realised 30s. per cwt.

BALSAM (CANADA).—For five kegs of good bright quality offered to-day, a bid of 1s. per lb. was refused—1s. 3d. per lb. being named as the price.

BALSAM (COPAIBA).—Firmly held. Seven easks thick cloudy yellow Maranham were bought in at 2s. 6d. per lb.; elear pale ditto, at 2s. 4d. per lb.

BALSAM (PERU).—The market is firm. Three cases unworked balsam are reported sold at 5s. 6d. per lb.; for another lot an offer of 5s. 1d. per lb. was refused.

BUCHU LEAVES remain scarce. None were offered at to-day's auctions.

CALUMBA.—Of 65 bags were offered to-day and none sold. The prices named show no variety, good bold yellow and grey mixed being held at 35s. per cwt.

CAMPHOR (CRUDE).—The market is decidedly easier, but we have not heard of any transactions on the spot since our last report. At to-day's auctions 135 cases good to fine China camphor were offered, and bought in at 155s. to 160s. per cwt. The market is very uncertain, and it is quite possible that a bid of 150s. per cwt. would have been accepted.

CAMPHOR (REFINED).—Weaker and obtainable easily at 1s. 9d. on the spot, while there are sellers, but no buyers, at 1s. $8\frac{1}{2}d$. for forward delivery.

CANNABIS INDICA.—Twenty-three packages fair grey tops, dusty, but not stalky, were shown; and four of these sold at 5d. per lb., while for sweepings $2\frac{1}{2}d$. was paid.

CANTHARIDES.—Of 4 casks good bright Russian one sold at 3s. 6d. per lb. Thirteen cases Chinese cantharides were bought in at 1s. 2d. per lb., a bid of 10d. being apparently refused. When the last mail left Hong Kong, on April 30, the price of eantharides was coming down somewhat, and about 10 picnls were offering at \$50 per picul.

CARDAMOMS.—The supply was moderate, consisting of about 150 packages, of which 84 sold at very full prices, with an advance of about 3d. on a few very fine lots. Ccylon Mysore: Fine heavy medium to bold plump pale, 4s. 3d.; medium size, 3s. 11d.; small to medium, 3s. 4d. to 2s. 9d.; small to medium yellowish round, 1s. 11d.; long mixed,

1s. 6d.; brown, partly split, medium to bold, 1s. 5d; small to medium, very brown, 1s. 2d. to 1s. 4d. per lb. Malabar: Small to medium full plump, but grey in colour, 1s. 9d.; small size, 1s. 4d.; small to medium brown, 1s. 4d.: medium to bold grey, 1s. 10d. per lb.; small greenish, thin Aleppy, 8d. per lb. Seed: Flat; there was a very good competition at higher prices, 1s. 11d. to 2s. per lb.

CHINA ROOT.—The Hong Kong market had advanced to \$3.75 per picul for this drug on April 30.

CINCHONA.—Of Crown bark, only a small quantity was offered, and sales are not of any importance: 22 packages very thin, but fair, Bolivian quills sold at $6\frac{1}{2}d$, to $7\frac{1}{2}d$.; good bright Maracaibo at $5\frac{1}{2}d$.; damaged at 2d. and $4\frac{1}{4}d$.; and 30 packages bold, partly quilly, rather dark Carthagena, imported from Hamburg, and offered without reserve at from $3\frac{1}{4}d$., rising to 4d. per lb. The shipments of cinchona from British India since the commencement of the year have been about double of the Ceylon exports, but the Indian season is now nearly over. The admitted scarcity of tonnage in Ceylon may account to some extent for the discrepancy. The following figures approximately show the shipments of bark from the island during the first five months of the year:—

Year .. 1887 1888 1889 1890 1891 Lbs. .. 5,209,539 4,936,670 4,297,290 3,517,938 2,200,000

CIVET.—Five horns were shown, and 6s. 6d. per oz. is the price named.

Coca Leaves.—At to day's auctions 1 bale of sound Ceylon leaves, imported $vi\hat{a}$ Madras, good strong rather dark leaves of Huanuco character sold at $8\frac{1}{2}d$. per 1b. Another parcel of 8 bales thin brown leaves is held for 6d. per 1b. There has just been a fresh arrival of 15 cases (weighing only about 225 lbs. in the aggregate) of coca leaves from Ceylon. The leaves are well cured, but rather dark, of decided Huanuco character, and well packed in tea lead.

COCAINE.—Messrs. Bohringer & Sons report a very active demand, and say:—"The latest cable advices of the last few days from South America announce a fresh rise; we learn further from Hamburg that one of the makers of crude cocaine is about to suspend the manufacture, owing to lack of raw material. There exist in Hamburg only small lots of crude cocaine that are held at 18s. to 19s. per oz."

COCCULUS INDICUS.—Another parcel of 300 bags was shown to-day, and is held for 11s. per cwt.

CODEIA.—Very scarce and advancing in value. The nearest price is now 15s. per oz. A strong demand from the United States is partly the cause of the advance.

COLOCYNTH.—Good pale partly-broken Turkey apple is held from 11s. to 1s. per lb., and one lot of seven eases rather broken sold at $10\frac{3}{3}d$.

CREAM OF TARTAR.—Still falling in value, and now obtainable at 95s. for best white French crystals. German powder is offering at 96s. to 97s.

CUBEBS.—Slow of sale at 10l. nominally for fair rather small shrivelled and somewhat stalky berries.

CUTTLE-FISH.—Fifty cases medium to very bold good white, from Bombay, sold at $3\frac{1}{2}dl$. per lb.

DRAGONS' BLOOD.—For 6 eases soft medium good colour 91. per cwt. is the price asked.

ERGOT OF RYE.—At to day's auctions, 6 packages of good Russian ergot sold at the high price of 1s. 6d. per lb, and for rather small Spanish the same figure is asked. Some rather dirty Russian ergot is being offered privately at 1s. 5d. per lb., c.i.f. terms.

GALANGAL.—Twenty-one bags sold at 14s. per cwt.

Galls (China).—Mail reports from Hong Kong, dated April 30, state that the price of galls there has advanced to \$20 per picul, at which figure the stock of 200 piculs would would be available.

GAMBOGE is now in very large supply, no less than 45 cases, mostly ricey Sargon, being offered at to-day's sales. Few transactions, however, resulted. Fine pipes of good colour, but partly blocky, were bought in at 13%. 10% per cwt.;

dark fractured ricey pipe and blocky pieces, at 11l. to 12l. one lot of dull lump sold at 10l. 7s. 6d. per cwt.

GUM ARARIC.—At last Thursday's anctions a somewhat moderate supply of Arabic gums of all varieties was hrought forward. It was, however, more than sufficient to meet the dcmand, and only 632 packages, out of 2,633 offered, found buyers. Ghatti realised an advance of 1s. to 2s. on the last anction rates, hut did not quite come np to the prices which had been paid for it privately. Good pale to scleeted drop sold for 45s. to 53s. 6d.; fair to fair pale and amber at 27s. 6d. to 34s. 6d. per cwt.; Cawnpore Amrad steady at 37s. to 50s. for fair yellow and brown to pale frosted; Kurrachee gums declined between 2s. 6d. to 5s. per cwt., good to selected pale drop selling at 77s. 6d. to 93s., small pale drop at 70s., pale and red mixed to good bright amber at 50s. to 73s. per cwt.; small and dnsty to good bold clean siftings at 18s. 6d. to 66s. per cwt. Bombay gums also suffered a decline of about 2s. 6d. per cwt., palc to red olibanum scented drop selling at 38s. to 40s, clean siftings at 14s. to 18s. 6d. Cape gum was in good supply at to-day's auctions, and the greater part of what was offered (19 out of 21 packages) sold, with good competition, at dearer prices for the best lots. Small to medium pale drop, partly dnsty, realised 132s. 6d.; bold grey drop and dust, 77s. 6d. to 80s.; small to medium grey drop and dust, 67s. 6d. down to 55s.; pale siftings, 39s.; dark pickings, 29s. to 31s. per cwt. For a parcel of fine even small white picked gum, 10l. 12s. 6d. per cwt, is asked. Two bales good Soudan sorts were bought in at 81. 10s. per cwt. Of Australian gum, good frosted drop was bought in at 47s. per cwt., an offer of 42s. per cwt. being refused.

GUM BENZOIN.—Still in large supply, especially as regards Sumatra gum, for which, however, the demand is very slack. At to-day's sales 38 cases of this variety sold at 7l. to 7l. 10s. for good bright almondy centres, and 6l. 2s. 6d. to 6l. 5d. for rather dull and very false packed; these figures showing a decline of about 5s. per cwt. Of 13 cases Siam gum 7 sold—small to medium almondy block at 1ll. 10s., fair blocky seed at 87s 6d. to 90s. per cwt. Twenty-two cases very low woody Palembang sold at 5s. per cwt.

GUM KINO.—Four cases good bright *East Indian* sold for 50s. per cwt. to-day, which is a considerable advance on the last price, and some liquid kino was disposed of at 10s. per cwt.

GUM MYRRH is offering plentifully, but the prices show no improvement whatever. Of 55 packages offered to-day 22 sold at 6l. 17s. 6d. for fair palish picked, 75s. for good bright sorts, 47s. 6d. for pickings, 65s. for clean coarse siftings, and 36s. for small siftings.

Honey.—Of new Jamaica honey nearly 100 packages were offered to-day, and mostly sold at full prices to a slight advance of ahont 6d. to 1s. per cwt., fine bright liquid amber at 35s. to 37s., brown and red ditto at 30s. to 33s. 6d., dark from 2s. down to 25s. per cwt., 2 casks blackish liquid from Trinidad sold at 27s. per cwt. Of New Zealand honey 74 packages were offered, but all bought in; good sweet thick yellow honey in two ½ cwt. tins per case at 40s. per cwt.

INDIGO.—The prospects of the indigo crop in Lower Bengal are described as satisfactory by a Calcutta correspondent, writing on May 20. Rains have considerably benefited the plants, but still more moisture would be welcome. In Benares, the North-West Provinces, and the Behar prospects are also favourable, but, generally speaking, rain is still much wanted.

IPECACUANHA.—Of 46 serons offered 30 were sold to-day at an advance of about 3d. per lh.; sound root, woody and dnsty, selling at 7s. 4d. to 7s. 5d.; good to stout hright at 7s. 6d, to 7s. 9d.; fine thick hut slightly-damaged realised 7s. 10d., and for other damaged parcels from 7s. 9d. down to 7s. 4d. per lb. was paid.

JABORANDI LEAVES.—For two bales fair stalky an offer of 7d, per lb. was refused.

JALAP.—Rather easier; 2 bales fair small to medium Vera Cruz sold at 1s. per lb.; and for damaged ditto, part very mouldy, from $10\frac{3}{4}d$. to $9\frac{3}{4}d$. was accepted.

KAMALA.—Two cases were shown, and the holders would now be willing to accept 8d. per lh.

KOLA.—Of 24 packages offered in sale, 13 sold at 6d. to 7d. for good dried West Indian; and 2d. for ordinary wormy and badly cured.

Kousso is exceedingly scarce, especially for the better qualities.

MORPHIA.—Very sluggish at 4s. per oz.

Musk.—Very flat, and the few sales made show a tendency to somewhat easier prices. Of *Tonquin* pod musk, first pile, everything was bought in at 80s., for thin grey and blue skin, small to bold pods, well trimmed and fairly dry. For a caddy of rather damp small to bold thin skin, thirdpile, an offer of 50s. was refused, and another offer of 24s. 6d. was declined for common ragged dark and damp nsual skin, 1 tin third-pile pods, unsightly, fairly dry usual skin, realised 23s. per oz.

MUSK SEED.—Seven bags West Indian were bought in at 5d. per lb.

NUX VOMICA.—On May 20 the Calcutta stock, with [a lifeless market, was about 1,000 mannds.

OIL (CASTOR).—Forty cases fine pale Calcutta oil are held for $4\frac{7}{8}d$. per lb.; and an offer of $4\frac{3}{4}d$. per lh. was refused. For 3 casks yellow Madras oil, $3\frac{1}{8}d$. per lb. was paid.

OILS (ESSENTIAL)—American oil of Peppermint has recovered a little, and is now worth at least 12s. 6d. per lb. for H.G.H.—in fact, it is said to be doubted whether any could still be procured at that price. In Otto of rose business is reported almost suspending, pending the arrival of definite information with regard to the new crop. Lemon and Bergamot oils have again advanced in Italy, and it is thought that prices are likely to remain at least at their present level during the summer season. Citronella oil was held for \(\frac{16}{16} \) d. per oz. in sale to day, and Australian oil of Sandal rood at 12s. 6d. per lb. Of Lemongrass oil 10 cases from Cochin sold at 1\(\frac{3}{4} \) d. per oz., while 9 cases Cojuput were disposed of at the apparently low price of 2s. 11d. to 3s. per bottle; another lot, however, is held at 3s. 8d. per bottle.

OPIUM.—The London market is very quiet, but some little business is reported to have taken place in soft shipping kinds at the comparatively high price of 12s. to 12s. 3d. per lb. Persian is rather easier, but without business. The first new opium, consisting of 3 baskets from Eniqueul and Alascheïz, arrived npon the Smyrna market on May 27, and a sale of 5 baskets new talequale for August delivery is reported at 6s. 5d. per lb. The crop is proceeding satisfactorily, and according to the various accounts which reach ns, a total yield of between 7,000 and 8,500 baskets is looked for. In the Salonica district the gathering is now in full swing, and the crop is expected to be at least as large as last year. The Smyrna market on June 1 was weak, and without buyers. The final crop output is expected to be known early in July. It is said that at the opening of the season the stock in all hands in Smyrna, Constantinople, and the interior amounted to 1,700 baskets, or, say, 1,500 cases. During the month of May, a correspondent writes, the transactions in the Smyrna market were small, not exceeding 120 cases, against 450 during April. Quotations, however, are not much lower, the last prices paid being:—For new Karahissar, according to quality, 8s. 6d. and 8s. 8d.; new extra Yerli talequale, 8s. 3d. and 8s. 5s.; new sightly talcquale, 8s. 1d. and 8s. 2d.; new usual run, according to quality, 7s. 9d. and 7s. 11d.; old choice selected, 8s. and 8s. 1d. per lb., all f.o.b. Nevertheless, it is thought that prices must give way before long, if nothing detrimental should occur to the crop in the northern districts, where the harvesting is five to six wecks later than is the case in the surrounding neighbourhood of Smyrna. According to the accounts hitherto received, the Malatia and Salonica crops will not be in excess of last year.

PAREIRA BRAVA coming rapidly down in price; 30s. would probably now be accepted for genuine root, but no bids were made to-day. A parcel of 35 bales imported in pieces was bought in at 40s. per cwt.

PISTACHIO KERNELS.—Twenty-one bags of the Persian pistachios in shell, which have for a long time been in the market, were sold to-day without reserve, at the low price of $\frac{1}{4}d$. to 1d. per lb.

QUASSIA.—The importation of chip quassia from the West Indies in increasing. At to-day's auctions, 86 bags from Trinidad and other parts of the West Indies were offered—the former, of very fine bright quality, sold, with good competition, at the high figure of 11l. 15s. per ton; the latter realised from 10l. to 10l. 5s. For 28 tons of quassia logs from Jamaica, new wood, an offer of 5l. was refused.

QUICKSILVER.—The market remains quiet at 8*l*. in the first hand, and 7*l*. 17*s*. 6*d*. per bottle in the second. Our imports from Spain last week amounted to 6,000 bottles.

QUININE.—The market has been exceedingly flat this weck, and prices are lower. German bulk quinine could probably be bought from secon-dhand holders for 11d. per oz., and 10,000 oz. are said to have changed hands at that figure early this week. Another report, however, gives the price as $11\frac{1}{3}d$. per oz.

RHATANY.—For 5 bales fair chumpy root an offer of $4\frac{1}{4}d$. per lb. was refused.

RHUBARB.—In fairly good supply at to-day's anctions. Of 106 cases, 48 sold at low prices. Shensi: Medium to bold, partly rough and dull round, three-fonrths pinky, one-fourth dark, at 1s. 5d. to 1s. 6d.; fair coat, small to medium part rough, slightly spongy round, three-fourths pinky, one-fourth dark, at 1s. 3d.; flat and wormy also 1s. 3d.; common round and flat, mixed without reserve, 6d. to 7d. Canton: Flat medium to bold, three-fonrths pinky, one-fourth dark, at 1s. 5d.; small ditto at 1s. 1d.; good, but rongh, round and flat, mixed pickings, at 10d. to 11d.; medium to bold fair bright coat, but half dark and very wormy, at 6d. to 9d. per 1b.

SARSAPABILLA.—Native Jamaica is dearer, and realised 1s. 5d. per lb. for mixed colours; of 19 bales very fine Lima in bundles of the Jamaica character part sold at 1s. 3d, for sound root 1s 4d. is asked.

SCAMMONY.—The new crop in Asia Minor is said to be a good one, and the first small samples have arrived upon the Smyrna market. There is little demand for old resin in the meantime.

SENEGA.—Good bright quality, of good flavour, is said to be selling at 1s. 10d. per lb.

SENNA.—Of *Tinnevelly* about 200 bales were offered, nearly all second-hand, and of very common quality. Part of this, common to ordinary specky yellow and small leaf, sold at 1d. to $1\frac{3}{4}d$. per lb. Of 10 bales small brownish Alexandrian leaf, 5 sold at $1\frac{1}{2}d$. per lb.

SHELLAC.—The anctions held on Tnesday were very heavy, consisting of about 2,720 cases, of which, with unexpectedly good competition, about 2,300 cases sold at a decline of 1s. 6d. to 3s. on orange, 2s. on garnet, and 1s. to 2s. on button lac. Orange lac realised 79s. to 81s. for good bright fine but blocky, 76s. to 78s. for fair to good fair, 73s. to 76s. for ordinary livery to reddish, and 70s. to 72s. for common liver. AC garnet realised 73s. to 74s. for good free, and 71s. to 72s. for blocky. Since the auction the delivery market, which had previously shown great signs of weakness, has become firmer, and August delivery has sold up to 82s. 6d. per. cwt. Under date of May 20, we hear from Calentta that all the shellac manufacturers are standing out for higher prices. There is a good demand for all grades of orange lac, while button is exceedingly scarce, and advancing daily, owing to the inability of sellers to fulfil their contracts. It is said that there is hardly any stock in Calcutta or at the Mirzapore factory, whilst sticklac is arriving very slowly.

Squills. Twenty-eight bags of dark squills sold at the very low price of $\frac{5}{8}d$. per lb., on condition that this would pay the charges.

TAMARINDS.—West Indian are again lower; about 350 barrels were offered to-day, and mostly sold, new Barbados at 8s. 6d. 60 9s, ordinary at 7s. 6d. per cwt.

Tea. — The China market is nnchanged, fair common congou being obtainable at $5\frac{1}{2}d$. to $5\frac{3}{8}d$. per lb., and useful teas—Onfas, Mingchons, Panyongas, and Soomoos—at $6\frac{1}{4}d$. to $6\frac{1}{2}d$. Catalognes of about 1,200 boxes fair liquoring 1891 newmakes were printed for Thursday, and good prices were realised, ranging from 8d. to 11d. The terminal market for Congous is unchanged; but for Assams it has fallen

heavily, June and July quotations being $9\frac{1}{10}$ to $9\frac{2}{10}$, and Angust $8\frac{13}{10}$. There is, however, very little coming to the hammer, and the country trade is holdig off Indian teas, and paying more attention to Ceylon growths. Tuesday's heavy Ceylon sale went at fairly steady prices, useful Pekoe souchongs going at 8d. per lb., and really good Pekoes 9d. npwards.

Tonquin Beans—One case good bold black *Para* sold at 2s. 10d. to day, for fine frosted beans 4s. is the price.

TURMERIC.—From Calcutta we hear, nnder date of May 20, that the local demand keeps the market exceedingly firm, but that nothing is doing for shipment.

Vanilla.—In good supply and easier, fine beans being about 1s. 6d. cheaper; $9 \text{ to } 9\frac{1}{2}$ inches, fine slightly crystallised, 20s. to 24s. 6d.; $7\frac{1}{2}$ to 9 inches, 13s. to 18s. 6d.; smaller and irregular sizes from 12s. 6d. down to 5s. 6d. per lb.

WAX (BEES).—Jamaica still continues in demand, and is again somewhat dearer—good red to fine orange and yellow, 7l. 7s. 6d. to 7l. 15s. per cwt.; ordinary brown, 6l. 15s. Madagascar bees-wax slightly easier at 6l. 10s. to 7l. for good brown and yellow mixed. In Italy there is very little beeswax left available, and owners are asking considerably higher prices.

WAX (JAPAN).—For good pale squares only 40s, was bid in sale to-day, and the lot was bought in at 42s. 6d. per cwt.

CHEMICALS IN THE NORTH OF ENGLAND.

THERE is a steady business doing in heavy chemicals, and prices, on the whole, continue firm.

BLEACHING-POWDER is moving off freely at 6*l*. 12*s*. 6*d*. per ton on rails Widnes and St. Helens; and 6*l*. 15*s*. per ton f.o.b. Liverpool or Tyne in softwood casks; and 7*l*. per ton in hardwood casks f.o.b. Liverpool or Tyne, all net cash.

CAUSTIC SODA.—70-per-cent. is now quoted on the Tyne at 11*l*. per ton; and 77-per-cent. 12*l*. 5*s*. per ton net; 74-per-cent., 11*l*. 15*s*. per ton; 70-per-cent., 10*l*. 15*s*.; and 60-per-cent., 9*l*. 10*s*. per ton, f.o.b. Liverpool.

HYPOSULPHITE OF SODA.—Good export business is doing, and prices are firm; 1-cwt. kegs quoted 7l. 10s. per ton; and 7-8-cwt. casks, 7l. per ton in 10-ton lots, net cash, f.o.b. Tyne; 7l. 10s. and 8l. per ton c.i.f. Liverpool; and 7l. 12s. 6d. and 8l. 2s. 6d. delivered Manchester, for casks and kegs respectively.

SODA-ASH steady at $1\frac{3}{3}d$. per degree, less 4 per cent., f.o.b. Tyne; Liverpool prices for carbonated, 48-per-cent., 5l. 7s. 6d. per ton; 52-per-cent., 5l. 16s. 3d. per ton; and 58-per-cent. 6l. 10s per ton; caustic, 48-per-cent., 5l. 2s. 6d. per ton; and 52-per-cent, 5l. 11s. 3d. per ton, f.o.b. Liverpool.

SODA CRYSTALS.—Easier at 3l. 5s. to 3l. 10s. per ton in 3-cwt. barrels f.o.b. Liverpool; and 2l. 15s. 6d. per ton, gross weight, f.o.b. Tyne.

SULPHATE OF SODA.—Quiet at 40s. per ton, in bulk, on rails Widnes and St. Helens; 40s. per ton in bulk, and 50s. per ton ground and packed in casks, f.o.b. Tyne.

THE AMSTERDAM CINCHONA SALES.

(Telegram from our Correspondent.)

AT to-day's auctions, 2,606 packages Java bark were disposed of at an average unit of $6\frac{3}{4}d$, cents (equal to about $1\frac{3}{4}d$.) per lb. Manufacturing barks in quills, broken quills, and chips, realised from 9 to 57 cents (equal to $1\frac{3}{4}d$. to 10d.) per lb.; ditto fine root, from 7 to 43 cents (equal to $1\frac{1}{4}d$. to $7\frac{3}{4}d$.). Druggists' barks in quills, broken quills, and chips, 17 to 139 cents (equal to 3d. to 2s. 1d.); ditto root, 11 to 15 cents (equal to 2d. to 3d.). The principal buyers were Mr. Gustav Briegleb, the Brunswick Quinine Works, and the Auerbach Quinine Works.



Memoranda for Correspondents.

Always sendyour proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read. Ask us anything of pharmaceutical interest: we shall do our best to regly. Before writing for formulæ consult the last volume, if you have it. Letters, queries, &c., will be attended to in the order received.

"Physicians' Prescriptions Acourately Prepared."

SIR,-I may not have had so long an experience as your correspondent, Mr. Richards, but for the last twenty years or thereabouts I have been engaged in dispensing pharmacies, both London and provincial (Lancashire and Yorkshire), and I read with the greatest amazement how the West of England pharmacists understand the meaning of the familiar words, "Physicians' prescriptions accurately dispensed." My general experience of masters (if in these democratic days I dare use such a word) is that they are men of honour, who would as soon think of attempting to pick a customer's pockets as omit the active ingredients from his prescription, or make fractions of a grain a "trick of the eye." I recall one instance, and only one, where Mr. Richards's picture of pharmaceutical tools and commercial morality would apply, and as I then had some vestige of a conscience I quickly brought the engagement to a close.

I should hope for the honour of pharmacy mine is by no means a rare experience. C. P. (56/10.)

SIR,—Until I saw the letter in your issue of yesterday from Mr. Ryder, I had not read Mr. Richards's. I mnst say when I did read it I was astounded. I have been in ten businesses all over the country, as well as a dispenser at Guy's Hospital, and though several of the shops could hardly be called first class ones, they all possessed scales that would weigh very much nearer than 10 per cent. off the required quantity. What Mr. Richards means when he talks of "an assistant striving for '05 grain of strychnine," I cannot understand. Does he infer that in the first-class businesses in the West there are some chemists who use analytical balances which will weigh $\frac{1}{50}$ gr.? As to assistants leaving ont such "nnimportant items as ex. nnc. vom. and ex. hellad.," that must be a wilful libel on the trade. I have heen assistant (one of three dispensers) in one of the best-known West-end businesses where eight assistants are kept, and I never heard of or saw snch a thing.

Hospital dispensing is generally much despised for its inaccuracy, &c., but if Mr. Richards carried on his system in one of the best London hospitals, he would quickly resign. How, for instance, would he dispense such prescriptions as the following, which occur very frequently:-

Inj. homatrop. hydrobr. (miij. to contain zin gr.)

All these hypodermic solutions (except those in B.P.) are made as required, and the strength varies very much. conclusion, I hope that the chemists generally, and the West-country ones in particular, will give their views on the limits of inaccuracy. If they correspond with Mr. Richards's, it is quite time that chemists' weights and scales should be examined by the Government inspectors.

Yonrs, &c., A. A. B. (57/35.) Coventry, June 6.

SIR,-In answer to Mr. Ryder's statements in your last issue, under the heading "The Limits of Accuracy in Dispensing," I am pleased to find I have heen mistaken, as I had long since come to the conclusion that "conscientious that such particular advertisement, and to express

chemists" were, like angels' visits, "few and far between." The fourteen years I have heen in the drug trade I have held some good herths, both in Devon and the Midlands, and have found, with only one exception, that the rule has been, if yon have not the exact pills as per prescription made, send the nearest you have, as a little ext. nucis vom. or belladon. won't make any perceptible difference.

One chemist, not many miles from Teignmouth, told me that he always sent out coated pills to save him the tronble of making them. I asked what he did in case he had to dispense a prescription. He said, "That's easily managed; I send the nearest I have in stock." Not long since I started making up a batch of pills from a prescription containing ferri. sulph.; I was told not to waste my time ahout them, but to send our "female pills"—the patient would never know the difference. These are only a few of the many instances I could quote. I should like to know how many of the recipes for horse-powders are made "ut R." I am afraid the stock mixture has to do for all. I know a chemist who never refuses a copy of prescription when requested by a customer who has lost the original, but always omits the most important ingredient, so that the patient shall be unable to get the same mixture elsewhere. I have frequently discussed these subjects with other assistants I have met with in different towns, and have heard sufficient from them to justify my belief that many chemists have no consciences at all. I sincerely hope it has been my misfortune to be employed by the only unscripulons men in the trade.
Yours truly,

AN ASSISTANT. (57/38)

[Our correspondent's experience appears to be of the "extensive and peculiar" kind, and his hope is nearer the truth than the supposition that his assertions are generally applicable.—Ed. $C. \mathcal{S} D$

The "Sticking-point."

Sir,—I am glad that so experienced an advertiser as Mr. William E. Geddes should have taken up the suggestion thrown out in my newspaper article republished in THE CHEMIST AND DRUGGIST on May 30, and made the attempt to enlighten advertisers who have encountered the difficulty I described. Mr. Geddes would be doing us all a good turn if he could define the best methods of procedure to augment sales after that hlockade point in the career of a patentmedicine has been reached at which the demand seems to stick and to refuse to be urged further. That such a result is experienced, Mr. Geddes judicionsly abstains from denying, and he does not cite any evidence to show the reverse; nevertheless he hints, not too obscurely, that his own opinion is to the contrary, and that when this apparent sticking point is reached, it really means something wrong with the advertising department, which, being adjusted, will admit of an unchecked advance.

That Mr. Geddes, however, has failed to appreciate at least one element in the situation will have been perceived by the least acute of his many interested readers. If we allowed him to persuade ns that there was really no "sticking-place," we should find ourselves confronting the idea that the employment of an article of limited ntility can be extended without limit—a contradiction in terms. It is evident, therefore, that in the nature of things there must be somewhere a saturation-point. You cannot advertise medicine into the throat of a man who does not want it, and the number of people who can be frightened by "awfulnarratives" into thinking themselves ill is also limited. Moreover, no ingennity of advertising will save you from the inevitable element of competition. One of my chief objects in addressing the American journal which originally contained my essay was to elicit expert opinion as to the best methods of maintaining sales when the saturation-point had been approximated. If Mr. Geddes is not too much wedded to his thesis that no such point exists, nobody's opinion on the subject could be more interesting or anthoritative.

But apart from this, every advertiser knows that there is a place, short of actual repletion, at which sales stick. Expert advertisers will not discover in the letter of Mr. Geddes any new plans for publicity, and I have no hesitation in saying that the moment an advertiser undertakes to estimato the result by a division of 1s. $1\frac{1}{2}d$. into the 100l. cost of a certain page, he is demoralised and has lost his grip. To any such competent expert all the methods of publicity mentioned by Mr. Geddes are perfectly well known, and it is a matter of each man's experience, and the peculiarities of his own business, to say which is the best to use. I do not know any successful advertiser who (to borrow of Mr. Geddes a recondite metaphor) has not "burned the midnight oil." Many have doubtless secured a wrinkled brow, and possibly a reputation for temper also. Certainly I have not sung the song of lament, nor advocated the folding of hands-a proceeding to which the fraternity of medicine-mongers is, in sooth, little addicted. Rather have we sought such a Gamaliel as Mr. Geddes, at whose feet we might sit, gathering the crumbs of advertising wisdom that fall from his lips.

But since it is not denied (even by Mr. Geddes) that there is known to experience a sticking-point short of actual saturation (and I happen to know a number of successful advertisers who have met with it), it is pretty certain that all the methods known must have been tried. There are often minor stopping-places before the great block is reached, and they are very hard to get over. A history of their conquest, from various pens, would be very instructive reading. Especially valuable, too, would be what I have desiderated in my previous article—I mean statistics of sale and advertising expenditure on medicines of admitted success, extending over a number of years. Such a record would reveal many chrious facts, and I should be very much surprised if Mr. Geddes did not find it sufficient to "screw his courage to the sticking-point," or, rather, to a belief in the existence of that very real entity.

46 Holborn Viadnet, London, E.C.

Yours truly, JOHN M. RICHARDS.

P.S.—Since writing the above I have seen, for the first time in my experience, a statement of sales definitely attested. In the Star, June 9, an advertisement of sulphur tablets contains the certificate of a chartered accountant, showing a sale in this article for April last of 66,156 packets—nearly 460 gross. It may be assumed that this result would not have been made the subject of advertisement if it had not been considered something more than eminently satisfactory. How closely it approximates to my estimate published in THE CHEMIST AND DRUGGIST as long ago as May 1885 (I said 500 gross would be a high limit), it would, perhaps, not be modest for me to take too much satisfaction in pointing out.

Assistant's Dinner.

SIR,—I have this day read "M. K.'s" interesting letter entitled "A Chemist Assistant's Dinner." On perusing this letter a few thoughts came to my mind; the first was, "How many chemists' assistants in England are placed in a similar position to 'M. K.?'" I fear a great many.

The second thought was, "Is the writer detailing his

experience of one day only, or is it daily, weekly, and monthly?" If it is so, I pity him, and at the same time I would suggest that he is a little to blame. An assistant, after working hard from 7 or 8 A.M. to noon, is entitled to a good square meal, and he should see that he gets it, a thing which (I presume) "M. K." never gets, and which "M. K." should insist on having, even if he has to allow the boss to go in first and have his. The governor would appresist and have his. ciate and respect his assistant much more if he stuck up a little more for his rights, and spoke out his mind respectfully but plainly. Surely berths are not so scarce in England but that a good assistant can find one where the employer is a little more considerate for his assistant's comfort than the one mentioned in this case.

In France every assistant has his allotted time for meals, and even the garçon is not called up from his mid-day meal unless there is something very important to be carried out.

AN ENGLISH ASSISTANT. (59/50.)

Aix-les-Bains, May 8, 1891.

["English Assistant" takes "M. K.'s" humourous description of his prandial difficulties rather too seriously. Most readers, we think, will have understood "M. K.'s" sketch to have been a somewhat exaggerated representation of his hardships.]

Action of Salts on Cocoa Butter.

SIR,—In your issue of June 6 I notice a communication from Mr. Clague respecting the influence of certain chemicals on suppository bases. If Mr. Clague will refer to THE CHEMIST AND DRUGGIST of March 29, 1890, he will notice a note of mine bearing on the query of "Perplexed" to which he refers. In that note I gave as the result of my observations that ferric nitrate did not sensibly raise the meltingpoint of ol. theobromæ if the precaution were taken of mixing them at a very low temperature. Since Mr. Clague's contribution I have repeated the experiment, merely to verify First melting the ol. theobromæ, then when beginning to solidify stirring in the ferric salt, I obtained the same melting point both before and after the mixing (viz., 28° C.), a very low onceven for ol. theobromæ, but upon applying a little heat (by holding the vessel a few inches above a naked flame, as is usually done) the melting-point was raised to 42° C. I think this can be explained by the known readiness with which ferric nitrate is split up. Thus the sample with which I experimented is neutral in reaction when dissolved in cold water, but decidedly acid after gently heating. What the effect of keeping will be on the melting point of this mass I cannot say, but I purpose keeping some and repeating the experiment. I enclose a sample of the same.

2 Chapel Bar, Nottingham.

Yours truly, A. EBERLIN.

"The Syphon Trade."

SIR,—In your article under above heading in THE CHEMIST AND DRGGIST of May 9 I note two remarks, on which, with your permission, I would like to comment.

Referring to the deposit system, you say "this practice ensures safety." I am not so sure of that, and I would like to warn those of your subscribers who charge a deposit against buying back more syphons than they send out. I speak feelingly. I have been "had" myself, and, having arrived at the conclusion that second-hand syphons were dear at 2s. 6d. each, I abandoned the deposit system after

three months' trial, and took to lending.

The other point I wish to touch upon concerns my syphon register, &c., which you kindly refer to in your article. You say, "It does not give the customer formal printed notice that he will be held responsible for the syphon lent to him."

I enclose herewith a copy of the label which I attach to

all my syphons, and you will perceive that the notice is very

formally and distinctly set forth thereon.

I am afraid, Sir, that many syphons are lost because the dealer sends them out with the filler's label on, and no other. Labels cost very little money nowadays, and I am sure it would pay every dealer to have his own. I would respectfully commend to other dealers a label similar to the snbjoined:-

> This syphon is lent until empty; if not returned within 30 days will be charged 2/6. LEMONADE. From J. E. CROFTS, Dispensing Chemist, 57 GRANGE ROAD WEST, BIRKENHEAD. No.....

> > I am, Sir, yours truly, J. E. CROFTS.

Licensing Patent-Medicine Vaus.

SIR,-I am now in receipt of an official letter from the secretary of the Inland Revenue stating that they do not give any sanction for the sale of patent-medicines from a van or stall in the streets. It appears in some few cases licences to vans have been erroneously issued, but none will be issued hereafter; from which I understand that now licences for the sale of patent-medicines can only be granted

to the legitimate dealer who occupies a fixed place of husi-

While this affects ns as far as our four-iu-hand coach is concerned, I helieve fully in the measures adopted by the honourable Board of Inland Revenue. I do not believe that pateut medicines should be sold from travelling vans, as thereby the Medicine-Stamp Duty is many times evaded.

I have instructed the manager of our four-in-hand coach that he cannot sell St. Jacob's oil from his coach. This will, I think, be a death-hlow to travelling vans hereafter.

Yours very truly,

P. P. The Charles A. Vogeler Company,
WILLIAM E. GEDDES,

45 Farringdon Road, London, E.C., Manager. June 8.

Halviva.

SIR,-In your issue of May 30, and in reply to a correspondent, you say that creyat, or halviva, is chiretta.

Halviva may or may not he chiretta—as a matter of fact, I helieve the compound sold under that name is principally composed of chiretta—hut creyat, although often confounded with chiretta, is really Andrographis (Justicia) paniculata, official in the Indian Pharmacopœia, and called in the Indian hazaar "Kariyát," and is like chiretta a hitter tonic, bnt iustead of its natural order being Gentianaceæ it is I am, Sir, yours truly, Acanthaceæ.

West Kensington, June 3.

GEO. A. WILLIAMS.

False Trade Description.

SIR,—I shall feel ohliged if you will allow me through your valuable journal to direct the attention of chemists and druggists to a very common practice which prevails to a considerable extent among the members of the important husiness of which your journal is such an admirable exponent. This custom is both nnfair and illegal. I allndc to the use of hottles hearing the names and trade-marks of their owners engraved on the hottles, which are brought to the shop of the druggist for fluids of various kinds, and are (without inquiry) made use of for any ingredient the customer may require. I am quite aware that many of the highest class of chemists and druggists do not as a rule adopt this nnjnst method, hut a very large number are not particular, and readily snpply what is asked for, and place their own lahels on the bottle.

This is the cause of much trouble and loss to the rightful

owners of such hottles, and is also unlawful.

Recently a case of the kind was brought before the Birmiugham justices, and the offender was fined for selling oil in a hottle hearing the registered trade-mark of its owner. I am sure that if through the columns of your paper you call attention to this nnjnst practice, and recommend chemists and druggists to refuse to fill bottles brought to them which plainly bear the name and mark of the rightful proprietors, you will advance the principles of that fair dealing which should characterise honourable trade, and oblige,

Yours faithfully,

W. TOOKE, Secretary of the Yorkshire Mineral-water Manufacturers' Juue 4. Association.

[We helieve the Merchandise Marks Act is wide enough in its terms to reuder it illegal to sell a pennyworth of hair oil in a soda water hottle hearing a maker's name, and we presume it was a case of this character at Birmiugham to which Mr. Tooke alludes. But this is not quite a fair use of the Act. The acrated-water makers are justified in preventing A from filling B's hottles with aërated water of his own manufacture; but, as wo understand, they are aiming to enforce the retnrn of such hottles to the owners hy rendering them as useless as possible, and they want chemists to act as their policemen. There would he the less objection to this if mineral water makers would themselves look after their hottles a little more briskly. They have, however, the law on their side, which is a fact which chemists will do well to note.—ED. C. & D.]

DISPENSING NOTES.

The opinions of practical readers are invited on subjects discussed under this heading.

Draughts.

SIR,—As a medical man of hetween fifteen and twenty years' experience of active work, may I say that I think your correspondent "S. A. C.," in your last week's issue, acted quite in accordance with the meaning of the words used by the writer of the prescription quoted? I cannot conceive the possibility of making "Ft. hanst." mean "Ft. mist." and we most of ns know that when we tell a patient to take a draught the patient, in nine cases out of ten, understands a single dose out of a single bottle, and if the draughts he made np in quantity and duly lahelled one-sixth part as directed, one may quite expect a message from the patient as to the accuracy of the compound. To my mind the whole difficulty and annoyance has been caused by the loose use of the word "haust." Had the prescriber used the word "mist" with the same directions, his meaning would have heen quite clear; as it is, he blames the chemist for nsing a strictly correct translation of the word "haust." When we, as practitiouers, send our prescriptions to a chemist for dispensing, it is our duty to use every care to make our meaning clear, and not rely, as in hospitals, npon the dispenser heing versed in our own particular methods or I am, Sir, yours faithfully, fads. Medicus. 58/32.

SIR,—I was greatly surprised at your answer to your correspondent, "S. A. C." In dispensing such prescriptions I have always sent the draughts in separate hottles, which I was taught to do where I was apprenticed. I have been in some of the hest West End houses, and it has heen invariably the custom there to send them separately. I think the doctor displayed his ignorance of dispensing, firstly by combining the syrup of lemons with the sal volatile, which would certainly spoil its effect by nentralising the ammonia; and, secondly, by censnring the chemist.

I am, yours truly, A. P. S. 58/52.

SIR,-I consider the fault to lie with the doctor. In my opinion "S. A. C." was justified in dispensing the prescription as he did; if the sign "\(\frac{1}{5}\)" had heen put hefore "vj.," then a 6-oz. hottle would have been sent. I take it the doctor would have heen equally disagreeable had he intended separate dranghts, and a 6-oz. had heen sent. The B stands for either, hence the doctor's position is very easy. Yours truly,

MAJOR. (59/63.)

Zino Chloride Solutions,

SIR,-Is it allowable, in dispensing ziuci chlor. and aq. dest. for lotion, to dissolve the oxychloride formed by the aid of q.s. acid. hydroch. dil., or should it be sent out cloudy, with a "Shake the bottle" on? Which should be Yours faithfully, done? W. O. S. (214/13.)

[The solution is generally sent ont clear. The addition of acid is a neat little scientific trick, which is apt to be carried too far. The decomposition is really small in amount, and removal of the oxychloride hy filtration is the preferable course to adopt.]

A Dentist's Prescription.

SIR,—The accompanying prescription, written by a Westend dentist, was presented to me to be dispensed a week ago. I declined to dispense it without referring to the prescriber first, calling his attention to the enormous strength of the solution.

This I did. He replied confirming the prescription, and ordered it to syringe the antrum cavity only twice a week.

consulted an eminent medical man, who advised me not to dispense it as written.

May I invite the opinion of your readers on the point?
Westgate-on-Sea,
Yours faithfully,
F. R. BESSANT.

June 10.

Perox. hydrogen
Bichlor. merour.

To syringe stumps twice daily, with cotton dressing.

[We should say that the prescriber did not know what he was writing about, and we should not hesitate to dispense equal parts of 10-per-cent. solution of hydrogen peroxide and the official solution of mercuric chloride. To dispense as written would be impossible; and were it possible, the dispenser would lay himself open to a charge of homicide.]

Equal parts aa.

Hydrarg. Oleas and Extract.

SIR,—Could you inform me which would be the best method of dispensing the following:—

M.

The extract being wholly incompatible with the oleate, I displaced 2 drachms of the latter with water, dissolved the extract in this, and then added the hydrarg. oleas. It turned out very decent, but I do not know whether this mode of procedure would be admissible.

I am, yours faithfully,

HEDERAL. (59/61.)

If Mr. T. Brown (page 780, 46/3) will leave out the tincture of calumba in his quinine and iron mixture, I think he will find no deposit. The tr. calumbæ is not wanted in the mixture at all.

DENS. (55/7.)

LEGAL QUERIES.

- 57/29. H. L.—It is illegal for anyone but a registered chemist and druggist to sell by retail either oxalic acid or any preparation of opium.
- 56/15. T. L.—We should regard the sentence on a handbill concerning a medicine, "Always ask for that made by Blank," as implying the claim of a proprietary right, and thus rendering the medicine liable to medicine-stamp duty.
- 57/61. Jack says:—"A agrees to act as assistant to B at a certain salary, and is to have a fortnight's holiday a year. This arrangement has been carried out for three years. Now A wishes to leave B's service, when only nine months of the fourth year have expired. Can A claim a proportionate part of his holiday, or pay in lieu of it?" [It would appear that the fortnight's holiday is contingent on the year's service. A would not, therefore, be entitled to it unless he had worked, or intended to work, for a complete year.]
- 58/71. Vilja—At present unqualified persons do compound and sell stamped medicines containing scheduled poisons. It is still an undecided point of law whether they are within their legal rights in so doing. The question, if it should ever be brought to trial, would turn on the interpretation of the term "patent medicines" in the 16th section of the Pharmacy Act, 1868.
- 57/56. Tulip.—An unqualified man can take an apprentice and teach him his business, whatever that business may be. If it include the dispensing of prescriptions, the unqualified master's certificate will be as valid as anybody else's for the purposes of the Minor examination. In fact, it is questionable whether under the present law the requirement of any such certificate is legal.
- 57/57. A. B. C.—It is not strictly legal for a jeweller to sell as a silvering solution a preparation of a metallic cyanide. But the Pharmaceutical Council is entrusted with moved by polishing.

discretion in the prosecution of any such infringement of the Act, and it is apparently regarded as unwise to use the Act to the manifest interference with trade which is not pharmacy. If the jeweller sell such a preparation not duly labelled and registered, any one can prosecute him.

- 57/70. C. D.—If your opponent can satisfy a court that customers are likely to be deceived in buying your preparation into regarding it as his he can get an injunction against you independently of trade-mark registration. The title can probably be protected only under the Trade Marks Act.
- 56/33. Kola.—If the article you sold was nothing more than an aqueous solution of the drug, we think that explanation would satisfy the Board. But we presume there is something besides in it, if only spirit. In that case the preparation is certainly liable to medicine-stamp duty. Several articles named on your list are also liable.
- 59/64. Kola.—Your preparation becomes liable, because on your label you recommend it for certain complaints incident to the human body. It would have been exempt (notwithstanding the recommendation) if the preparation had been a simple drug, or an aqueous solution of such. You admit it is a "flavoured" extract; and we presume you add some spirit. You can only escape liability by entirely omitting from your label all recommendation of the article for specified complaints. We may add that we think you are a little unfair to the Board of Inland Revenue. It is entirely an act of grace on their part that they give opinions as to liability of medicines to the stamp duty. We do not know of any other public department in the country which gives a similar advantage. In cases where it becomes necessary for the Board to have the medicine analysed before replying, some delay must be expected.

JAHNCKE'S PATENT METALLIC BOXES.—We refer our readers to the statement on p. 813.

MISCELLANEOUS INQUIRIES.

Correspondents who ask replies to be inserted "this week" or "next week" are reminded that we do not guarantee replies, and that their insertion depends upon the space at our disposal for such matters. It is generally impossible for us to find room for queries the same week they are received.

- 55/74. Inquirer.—We cannot express an opinion about the mortar.
- 55/34. Kickapoo.—You should detannate the wine with isinglass before adding the malt and beef extracts. It is the tannin in the sherry which causes the precipitate.
- 55/23. R. C. D.—As far as our experience of liquors for tinctures goes they are satisfactory. We reported favourably upon some which we examined a year or two ago, and we have had no cause to change our opinion of them.
- 58/14. Sobrietas.—(1) Thanks for your cutting. The statements regarding the virtues of mutton-suet as a healer are by no means new. (2) We have seen nothing but assertions regarding the use of Kola in the Treatment of Dipsomania. Any virtue which kola possesses is due to its active principle—caffeine. You can get the drug from any wholesale druggist. We have given formulæ for preparations this year.
- 57/66. Nostrebor. The insoluble film in glass water bottles is not a deposit, but is the result of the solvent action of the water upon the glass. It could only be removed by polishing.

57/53. Admiral.—Sir Andrew Clark's Aloin Pills.—Each pill contains half-a-grain of each of the following: aloin, extract of nux vomica, sulphate of iron, myrrh, and soap. Extract of helladonna may take the place of the extract of nux. One pill, or part of one, is a dose, half an hour hefore the last meal of the day.

53/14. P. M.—Spiritus Aromatious Silvestris:-

				Parts.
Ol. thymi				5
Or. thyun	• •	• •	• •	•• 0
Oi. terebluth		• •		5
Bals. vita Hoffmanni				5
Spirit. vini rect				50
(All by	weigh	ht.)		

Misce.

Hoffmann's halsam is the mist oleoso halsamica, a solution of 4 parts each of the oils of lavender, cloves, thyme, lemon, nutmeg, and orange flowers, and 12 parts of Peruvian halsam, in 1.000 parts of rectified spirit. If you got for spt. arom. Silvest an ammoniated preparation, it was distinctly wrong.

- 59/10. Phar. Chem.—The Chemist and Druggist, September 22, 1890, was the last Educational number, and is the one you are in want of.
- 58/7. E. Lloyd.—The huttercnp is a very good specimen of fasciation (i.e., a union of several stems side hy side, or Lattened). It is not an uncommon occurrence.
- 55/2. Duncdin.—We find that there is no such thing as Sympns Zinci Phosphatis, Guy's Hospital.
- 116/91. H. P.—Lotion for the Eyebrows.—The composition of the sample which yon send us is, as near as we can make out, camphor, oil of rosemary, chloride of ammonium, common salt, spirit and water. Try the following formula:—

Common salt 1 drachm Chloride of ammonium 10 grains .. Camphor 5 " Oil of rosemary .. 10 drops Rectified spirit .. 1 d rachm ٠. .. Water to 1 oz.

Dissolve the oil and camphor in the spirit, the salts in the water, and mix.

- 217/33. J. O. A.—We will shortly publish an article which will meet your wishes.
- 53/74. Rhei—Your comments on the Corner for Students are based on insufficient observation. It is not the case that the exercises are continually getting more difficult. Their relative severity is very variable. If the contributors remained the same for any length of time, it would be a good thing to have the exercises progressive; but they are always changing, and this fact is taken into consideration. If you were to take the trouble to look over the exercises for any considerable time, you would find that one which has proved difficult to the majority has been followed almost invariably by one that was easy.
- 58/4. Messrs. Jones & Son, Worksop, send us a card quoting wholesalc terms for trusses sent open through the post by a Manchester house. Our correspondents express objection to this method of making trade announcements, and say they prefer to read such as advertisements in The Chemist and Druggist.
- 58/61. An Old Subscriber (Sheffield) has not sent his name. The information which he requires has been given in recent issues.

55/6. Senex.—Arsenical Sheep-dip Powder.—White arsenic, 1 lh.; snlphur, 12 oz. Mix. This quantity is for 40 gallons of water. The directions should he as follows:—Boil the water, and add the powder to it, along with 1 lh. of washing soda, or 1-lh. packet of soap-powder; continue to hoil for ten minntes, and allow to cool, when the wash is ready for nse.

51/25. Gaelic.—Plain Bronze Lacquer is a solution of 3 ozs. of seedlac in a pint of methylated spirit.

54/46. Ponho.—We have not yet examined Tonquinol, but, as far as we can judge of what is said of it, it will no t do for making essence of musk. (See page 827.)

209/27. A. A.—Powder for Destroying Beetles.—(1) Red lead, 1 part; rye flour, 4 parts. Mix. (2) Borax, 1 part; fine oatmeal, 3 parts. Mix, and colour with bornt umber.

50/21. A Would-be Analyst.—There is no law governing the qualifications and titles of analysts. If you wish to ohtain a situation, you must be able to show that you have the ability and skill necessary for the work to be done. Judging from what you state of your qualifications, it is unlikely that you would get into any lahoratory at present, unless by favour and without salary. The best advice we can give you at present is for you to read the article "Scientific" in our last Educational number, and when you decide upon what department you wish to follow np you can write to us again, hut please state your qualifications more fully.

50/31. A. S.-No.

49/65. Exper. Docet.—Photographic Notes.—The safe rule to follow in developing over-exposed plates with hydroquinone is to omit hromide (which simply retards the action of the alkali) and reduce the amount of alkali. Bear in mind that the effect of exposing a plate is to reduce part of the silver salt. The hydroquinone completes this reduction, forming the image, and the alkali washes out the silver salt which has not heen acted on. It follows that in a case of over-exposure you want to complete reduction and wash out surface salt as quickly as possible, hence the omission of the bromide. Begin with half the amount of alkali, and if in thirty seconds the plate does not develop with sufficient rapidity add more. As you gain experience in working, and study the effect of different chemicals, you will hecome confident. Bear in mind that sulphites are restrainers, although not nearly so powerful as hromides.

50/26. Piscator.—(1) All the photographic dealers who advertise their goods in this journal publish hooks of directions for beginners. Send 1s. in stamps to any of them. You may also get "Photography Annual" (Iliffe & Son, 2s), which contains a useful section, "Tips for Tyros." (2) See reply 240/54 in our issue of February 21. An average of 6d. may pay yon for the doctor's 8-oz. mixtures, hottles excluded.

Information Wanted.

[Replies to the following requests are solicited by correspondents of The Chemist and Druggist.]

58/72. Makers of 1d. graduated tumblers.

209/27. Formula for Brittenden's oils for cattle.

59/17. Formula for gelatine coating, suitable for spreading on felt to make corn-plasters.

56/6 Makers of "Eclipse" meat hiscuits for dogs.

56/6 What is "White Malcombe," us:d by gamekeeper in Sussex for pheasants.

ACONT



(Black Letters on a ground of Pink or White Enamel).

Labels indestructible and of elegant appearance, forming an even surface with the glass or porcelain. The Jars of best porcelain, thoroughly greaseproof. The Bottles hand-made and of superior quality. Both are unsurpassed by anything in the market in every respect. Also a Oheapen sort of Bottles and Jars, with labels equally indestructible, but very plain, especially suitable for Dispensaries, &c. Intending Buyers are requested to inspect Samples at

POTES

4 CREECHURCH LANE, LEADENHALL STREET, E.C.

A targe number of Shops have been fitted up with these Bottles and Jars, both in England and the Colonies, a list of which can be had on application.

POISON BOTTLES of Ribbed Blue Glass, with RAISED White Vitrified Letters, and the Word "Poison" in Red at foot DRAWER LABELS of Crystal Glass, with Bevelled edges and Vitrified Labels to match the above Bottles and Jars.

A STANDARD LIST OF LABELS for Chemists' Shop Bottles, Jars, and Drawers will be sent free on application. TELEGRAPHIC ADDRESS: "POTHS LONDON." STOCK OF SMALL SETS ALWAYS ON HAND.

URE OXIDE OF ZINC (H

SPECIALLY PREPARED FOR PHARMACEUTICAL

HARRIS & CO., LIM., Manufacturing Wholesale BIRMINGHAM.

with every 6d. and 1s. Bottle, a Voucher entitling Purchaser to their name in full, or Monogram Rubber Stamp, for Marking Linen or Stamping Paper.

The Editor of THE CHEMIST AND DRUGGIST says:-"A very neat, useful article, really well made, and wonderful value for money." KINDLY DISPLAY IN WINDOW AND COUNTER. Works_75 Southgate Road, LONDON, N.

1/9, 3/6, and 6/- per Box.

"LYPSYL" (a Coraline Emollient for the Lips), 1/- per Box.

molia Soz

Floral, 6d., Balsamic (Medical), 8d., Otto Toilet, 10d., and Vestal, 2/6 per Tablet. Shaving Soap, 1/-, 1/6, and 2/6 per Stick; Flat Cakes, 2/-.

THURST TO THE Pink, White, and Cream.

FINOLIA FINITE English, 2/6; American, 1/6.

In Collapsible Tubes, 1/6.

Soap and Preparations, as they are the most saleable goods t All Chemists should keep a good stock of "Vinolia" can exhibit. Price Lists on application.

RYLAND ROAD, LONDON. BLONDEAU

CRESCENT



BRAND

BICARBONATE OF SODA,

REFINED AND RECRYSTALLIZED.

PURE AND CHEAP:

ANALYSIS.

Bicarbonate	of Soda	***	***	•••	200	•••	97'20
Mono Carbo	nate of S	Soda	•••	***	•••	•••	1,00
Sulphate of	Soda	•••	-		***	•••	trace
Chloride of	Sodium	•••	***	•••	•••	***	.032
Moisture	•••	•••	-	•••		•••	·8 2
Insoluble	•••	•••	•••	•••	•••	•••	nil

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INFLUENZA.

Its History from compilations by Dr. Parkes, Sir Gregory Baker, Dr. Farr, and others, with Comprehensive Notes upon "Practical Treatment."

The History of Influenza carries us hack to a period so remote that reliable information is wanting-even earlier than 1741, when its name was introduced from Italy; hut since then the evidence is comprehensive and trustworthy. In analysing these records, which have been carefully compiled by Dr. Parkes, Sir Gregory Baker, Dr. Farr and others, there is a striking uniformity of deductions as to the conditions which influence the death rates, and the principles upon which treatment should be founded, although there is considerable difference of opinion as to the means by which the disease is distributed. Hiiton Fagge states that " It does not spread from one patient to another, or to relatives or nurses of the sick"; on the other hand, Bristowe asserts that "It is infectious in a very high degree, and that it may be imparted hy a contsgium, which, like other contagia is specific, multiplies indefinitely in the body, and is thence evolved in marvellous ahundance." Perhaps the secret of this wide divergence is due to the difficulty in clearly defining several diseases which have much in common.

Fagge says: "The number of those who fall ill with Influenza is greater heyond all comparison than in the case of any other disease, but almost all the mortality is brought about by indirect means. In the great epidemic of 1847, out of 250,000 persons attacked in London, 5,000 died in six weeks. Those who die are chiefly old and dehilitated subjects who have lahoured with Emphysema of the Lungs or who have feeble and dilated hearts." Dr. Parkes confirms this view, and also states that it precipitates the course of Phthisis. Dr. Farr has pointed out that the mortality is invariably high in those districts in which a high mean death rate prevails. Now, all these points, irrespectively of the well-known symptoms, conclusively indicate the necessity for a highly nutritious and stimulating treatment; likewise the maintenance of the general health during the visit of an epidemic-especially, too, since one attack does not confer immunity, and according to Fagge's theory isolation and other measures for protection against contagion would be powerless. Depletive measures are universally condemned, yet one saline purge in the early stage, followed by ordinary salines and then ammonia with senega, is advocated by Fagge Quinine and other antipyretics are of course general favourites, hut quinine so frequently increases the headache that patients cannot tolerate it.

Parkes particularly condemns the administration of large quantities of hot heef-tea, since it invariably increases the languor, and many do not require stimulants till the acute period passes off, when a good supply of food is necessary.

Guided hy such experienced remarks, the only question then arises, What food shall he given? Hot heef-tea is condemned—have we anything containing the nutrient necessary for contracting the prostration and hastening convalescence? 'Caffyn's Liquor Carnis, 'Malto-Carnis or 'Carnis Jeliy have none of the disadvantages of beef-tea or alcohol, yet they are stimulants as well as nutrients, hut they do not excite; they are rapidly assimilated, and so

correct the waste necessarily attendant upon pyrexia. They do not overload the system with a quantity of waste material, so throwing an extra strain upon the overtaxed excretory organs, and "increasing the languor" as complained of hy Parkes respecting ordinary beef-tea. Very little food is required during the early stage, but that little must be good. The appetite is invariably lost, therefore these preparations heing refreshing and pleasant to the palate will be taken readily when ordinary kinds of food are refused. They will he found equally serviceable in a prophylactic measure hy increasing the strength and resisting powers of those who may have heen previously reduced in tone hy other illnesses, or whose age renders them particularly susceptible to the attack of this disease. Next in importance to the treatment of the disease itself in this, as in other epidemics, is that other troublesome epidemic-panic. This is often more difficult to combat than the actual disease, and practitioners will agree that a large percentage of their cases belong to this category.

The influence of the fixed idea in health and disease plays such an important rôle that it must not he disregarded. In one whose nervous system is highly sensitive and whose frame is not rohust, the faise symptoms are easily developed, and hecome of such real proportions that the patient no longer questions their reality, even when the stethoscope and the thermometer fail to corrohorate them in the hands of the medical attendant. It therefore becomes a necessity to maintain such patients at such a time in a healthy condition of mind and hody, so that the untenahleness of the ideas hecomes so conclusive, and the imaginary or subjective symptoms are relieved as quickly as those of the patient who, after swallowing [?] his false teeth, localized them successively in his throat and stomach until they were fortunately discovered under the sofa [Journal of Laryngology]. To restore or maintain this healthy equilibrium a mild tonic treatment with mineral acids and strychnia-combined with Caffyn's Liquor Carnis, Malto-Carnis or Beef-Tea Jelly, will he found to succeed admirably, and so relieve Influenza of many of its imaginary terrors, for which sensational journalism is in no small measure responsible.

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In proof of our statements we subjoin the report of Analysis referred to.

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"Analysis of STRUP. HYPOPHOS. COMP. (grains per drachm)."

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Hypophosphite of Quinine , Iron , Manganese , Calcium , Potassium , Sodium The quantity of Straychine present was not determined. Our Syruocontains 100 grain in each fluid drachm.	*25	·14	*11	*69	·12
	*77	·72	*10	*28	·15
	*27	·22	*00	*16	·08
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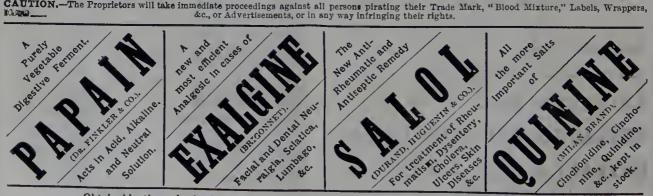
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BANDAGES, & ANTISEPTIC DRESSINGS,

WHEAT BRIDGE MILLS

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				PACKETS.	PINTS.	QUARTS.
				1 <i>d</i> .	$2\frac{1}{2}d.$	5 <i>d</i> .
MIXED	•••		•••	9/ gross	22/ gross	42/ gross
CANARY	•••	•••	•••	9/ ,,	22/ ,,	42/ ,,
немр	•••	•••		9/ gross	2d. 15/ gross	4 <i>d</i> . 30/ gross

Carriage pald on quantities equal to one gross pints.

ARMITAGE BROS., High St, NOTTINGHAM.

MEDAL AWARDED, EDINBURGH INTERNATIONAL EXHIBITION, 1890 GOLD CARRIAGE is fully Equipped without

Warm, Soft, and Dry, Easily Washed, Clean, and Durable.

They Prevent Chills in Bathing, and keep the feet warm and comfortable. Mr. GLADSTON E pronounces them to be very useful, and Lord SALISBURY and many of the Nobility and Gonty now use and appreciate them. They prevent cold feet in Driving, in Church, in the Counting-house, in Stone-Scored Apartments. Numerous testimonials to their usefulness in a great variety of ways. Bizes: 1 ft. square to 20×45 in. Prices: 3/, 5/, 7/6, and 10/6 each. Special Mats no to 21/each. Of all leading Chemists and Furnishing Houses.

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FORMULA.—Listerine is the essential antiseptic constituent of Thyme, Encalyptus, Baptisia, Gaultheria, and Mentha Arvensis, in combination Each Fluid Drachm also contains two grains of refined and purified Benzo-boracic Acid.

DOSE .- Internally: One Teaspoonful three or more times a day (as indicated), either full strength or diluted, as necessary for varied conditions.

LISTERINE is a well-proven antiseptic agent—an antizymotic—especially useful in the management of catarrhal conditions of the mucdus membrane, adapted to internal use, and to make and maintain surgical cleanliness—asepsis—in the treatment of all parts of the human body, whether by spray, irrigation, atomization, or simple local application, and therefore characterised by its particular adaptability to the field of

PREVENTIVE MEDICINE—INDIVIDUAL PROPHYLAXIS.

LISTERINE destroys promptly all odours emanating from diseased gums and teeth, and will be found of great value when taken internally in teaspoonful goses, to control the fermentative eructations of dyspepsia, and to disinfect the Mouth, Throat, and Stomach. It is a

PERFECT TOOTH AND MOUTH WASH,

Its value in this direction having been fully determined by the most conservative element of the Dental Profession.

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Cotton) \dots 2/2

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Each

ENEMAS (complete in Box), 26/- per dozen.

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SPONGE WRAP

WITH POCKET (WATERPROOF).

Size—18 inch \times 18 inch; each 1/8 , 24 inch \times 24 inch; each 2/-

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Established upwards of a Century.



COOK'S ANTISEPTIC SOAP

(THOMSON'S PATENT),

Has been tested in a Physiological Laboratory as a Germ Destroyer, and proved to be more efficient than any other experimented with.

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For Spirits, Oils, Perfumes,



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PRICE LIST POST FREE TO ANY PART OF THE WORLD ON APPLICATION.

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PROPRIETORS OF TIDMAN'S CELEBRATED SEA SALT.

3-lb. Boxes, per dozen, 5/4; 7-lb. Boxes, 10/9; 14-lb. Boxes, 19/9; 28-lb. Boxes, 35/10; Cardboard Packets, each sufficient for a bath, in Boxes of 12 Packets, 12/3 per dozen Boxes; White Linen Bags, each sufficient for a Bath, 3 dozen in a Box, 8,3 per gross.

SPONGES, SURGICAL APPLIANCES, PERFUMERY, COSMETICS, &c., &c.

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"STIPENDUM" GREASE-PROOF COVERED POTS

IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease Proof Covered Pots have perfectly fitting lids, are practically unbreakable, and the only article really answering the purpose intended.

The following Analytical Report should be noted by the trade:-

London, January 5, 1891.

"We have examined the two covered pots marked Movember 21, 1890, one containing strong nitrate of mercury cintment, and the other iodine cintment, the object heing to discover—(1) Whether the ingredients of which the pots are composed have in any way affected the cintments; (2) Whether the pots have been deteriorated by the action of the cintments.



We herehy certify that no trace of any of the ingredients of the pot can he discovered in either of the ointments, and further that the pots themselves were found not to have heen acted on at all; and we further consider 'Stipendum' admirably adapted for such pharmaceutical preparations.

Signed, C. T. KINGZETT, F.I C., F.C.S.
(Ex Vice-President Society of Public Analysts).
R. H. HARLAND, F.I.C. F.C.S.
(Public Analyst).



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Flint Glass Bottle Works,

THE OVAL, CAMBRIDGE HEATH, LONDON, E.

THE HEART SCENT BOTTLE (Reg.), for Salts or Perfume.

Is most admirably adapted for pocket use, combining great beauty of design with the maximum of convenience.

Price, Plain or Fluted (in 5 GROSS lots):—12/6 per gross. Assorted WHITE and COLOURED.

N.B.—The Caps for these will be fitted, if desired, with indestructible washers, to resist the action of ammonia, which destroys cork in a short time.

METAL SCREW-CAPPED LIMES, in White Flint, Actinic Green, or Amber The Best Bottle for Glycerine or Pills. Prices: 1 oz. 13/6, 2 oz. 15/-, 3 oz. 18/-, &c. per gross

Chemists' and Perfumers' Bottles in great variety, Plain or Stoppered.

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Correspondence to the Head Depôt at Dudley will always receive prompt attention.

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Each Till has only to display 2d. per week deficiency to return 15 per cent. on outlay.

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3 SHILLINGS,

Terms and full particulars on application.

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DISPENSING BOTTLES & PHIALS.

REDUCED PRICES.

3 and 4			6 and 8	• •		12		• •	16 ounce.				
7/€			8/6			12/-		••	16/- per gross.				
			CRYST	AL (E	LUE	TINI	ED).						
3 and 4		••	6 and 8			12		••	16 ounce.				
9	• •		10/-			14/-	• •		18/- per grosa.				
WHITE PHIALS,													
			1		••	15	• •		2 onnce.				
3/8	••	••	4/-			4/9	• •		5/6 per gross,				
		WHI	TE PHI	ALS (SUPE	RIOR	QUA	LITY	7).				
1,		• •	1			13		•••	2 ounce.				
4/3			5/3	••	• •	5/9			6/3 per gross.				

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Every Requisite for the Smoker in One Order.

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Irish Roll, Pigtail, Nailrod, Target, Cake, Plug, and all other hard Tobaccos; also Flakes, Shags. Virginias, Cut Cavendish, and every description of plain and fanoy Cut Tobaccos of standard quality at lowest prices.

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BREFFIT'S CAPPED OIL AND ETHER ROUNDS,

Hand-made, White Glass.

	20 oz.	30 oz.	40 oz.
ACID or ETHER ROUNDS, STOPPERED and GLASS CAPPED.	23/-	27/6	34/6
OIL BOTTLES, STOPPERED FUNNEL STOPPERS and GLASS CAPPED.	23/-	27/6	34/6
OIL BOTTLES, STOPPERED FUNNEL STOPPERS, and with TIN CAPS.	23/-	27/6	34/6
	20 oz.	'30 oz.'	40 oz.

DARK BLUE SYRUP BOTTLES,

Hand-made, with loose Plug Stoppers.

20 oz., 8/6

30 oz., 10/6

40 oz., **14**/- per dozen.

HAND-MADE WHITE GLASS SHOP ROUNDS

Sizes	2dr	1/2	1	11/2	2	3	4	6	8	10	12	16	20	24	30	32	40	60	80 oz.
UNSTOPPERED, NARROW or WIDE.	7d	. 7d.	9d.	9d.	11d.	1/3	1/4	1/9	2/	2/3	2/6	2/9	3/3	3/6 	4/	4/	5/	6/3	8/6
NARROW, GROUND GLASS STOPPERED.	1/8	3 1/5	1/6	1/9	1/9	2/	2/3	2/8	3 /6	3/9	4/	4/6	5/3	5/6	5/9	5/9	6/9	8/	10/6
WIDE, GROUND GLASS STOPPERED.	1/0	3 1/8	l/10	2/	2/	2/3	2/8	3/3	4/	4/3	4/6	5/3	5/9	6/	6/3	6/3	7/3	9/	11/6

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BUILING,
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PARATUS FOR
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ABORATORIES FITTED UP COMPLETE.



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Also for Horse Balls, Tooth Pastes, Ointments, Soaps. Powders, and for general Mixing, Incorporating, Sifting, and Straining.

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Section of the Nickel Stopper when closed.



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BURLINGTON BUILDINGS,

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EARTHENWARE COVERED POTS

Are claimed to be the most perfect and convenient yet offered to the Trade.



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These Pots are beautifully

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2 3 4 6 8 eunces.

2/3 2/10 8/6 4/6 5/6 per dox.

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3 4 6 8 ounces.

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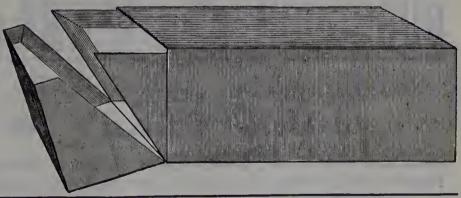
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White Enamel

6/9 7/9 8/9 9/9 gross

Purple ... 7/9 8/9 9/9 10/9 ,,



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For destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, &c.

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CARBOLIC PINK POWDER, 5/-, 7/6, and 10/- per cwt., in bags or casks.

HANDSOME LARGE DECORATED BLACK AND GOLD TIN BOXES, holding 1½ lb. (usual 1/- size), 4/6 dozen.

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White, Yellow, Veterinary, and Waterproof. All kinds put up in 1-lb., 5-lb., 7-lb., 14-lb., 28-lb., and 56-lb. Patent Tins, and in 300-lb. Barrels.

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PATENT

THE NEW AND POPULAR DISINFECTING POWDER.

SEND FOR SAMPLES AND PRICES TO

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See pages 169-172 WINTER ISSUE, January 31st, 1891.

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